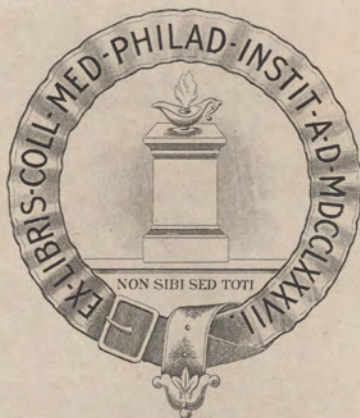






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*Class 10a No 306*

*Presented by*



Alfred Stengel, M.D.

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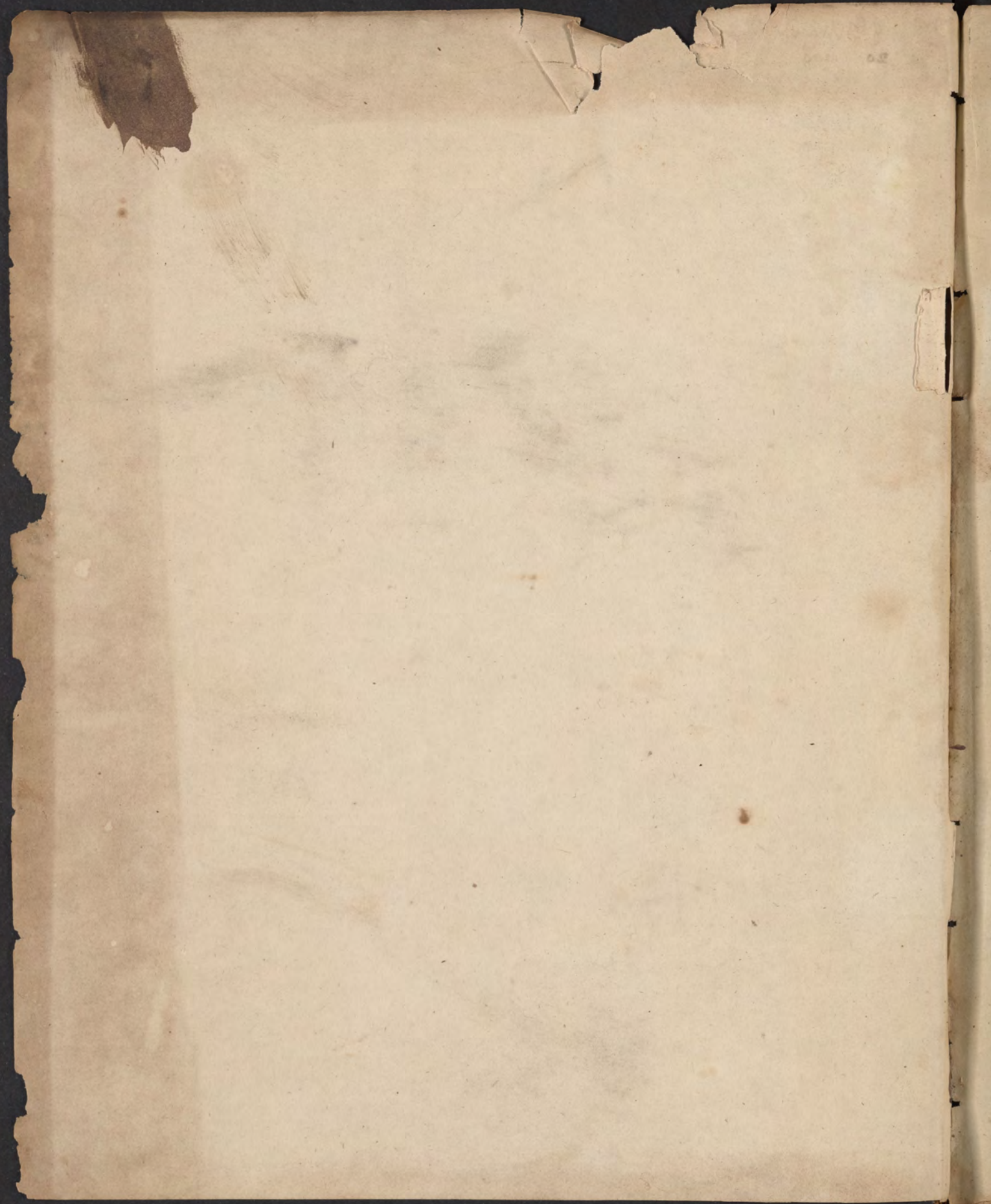


4<sup>th</sup> March 1818  
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John Clarke  
O. J. Clarke  
O. J. Clarke

3-3-35 bpt 7 Dr. Hengel







1

Notes on the Lectures of John Syng Dorsey,  
Professor of Materia Medica in the University  
of Pennsylvania. By John Y. Clark 1816, 1817

Nov. 7<sup>th</sup> 1816

In commencing my lectures on the Materia Medica, O  
Gentlemen, I need not inform you, that this chair  
has been heretofore ~~been~~ filled by men of the most disting-  
uishable talents. In teaching of the branch to which I  
have been called, I shall make every exertion to be  
useful to you, tho' I am well assured, that all the  
teachers can do, is to judiciously conduct you to a  
knowledge of the Elements. The materia Medica has  
for its object, everything that preserves and supports life, of  
these it is highly necessary that the student should be informed.  
I propose to pursue the plan of my able predecessor, discern-  
inating between what is useful and what is not, rejecting  
the latter and giving you the former, in order that you may  
become good practitioners. We shall commence our Lectures with  
the subject of Animal life. Dr. Jackson defines life to be the  
union of soul and body, this definition seems very obvious, but we must not  
forget the difficulty often attending definitions. I shall define life  
to be a power resisting putrefaction and chemical action, of pre-  
serving temperaments, Gold, silver, & all the metals are not easily changed  
but still they have no life. Among many the phenomena of life.







as exhibited in motion. heat sensation & thought have been said to constitute life. This doctrine has had many advocates, Dr Rush taught it and before him Dr Brown, This we consider completely confuted, by the fact, that life may exist without its phenomena.

Fish when frozen for some time are not dead, yet all the phenomena of life are absent. Vitality is as perfect in plants as in animals, and in the oyster &c as in man.

In many of the diseases of human beings, life or the phenomena, are absent for several days as in a trance, asphyxia &c, and

Dr Hunter thought that if a man were frozen he might be kept alive a century. By Dr Brown, Rush and others life has been said to be forced state here a quotation from Rush on animal life but none of them are the authors of it, for Dr Gullen taught as early as 1766 in the university of Edinburgh.

Stimulus can never create life. They say a capacity for life exists, but this capacity for it is life most of the actions of life are the effects of stimulants. Can any vital action take place, without the agency of stimulants? The actions of life are forced,



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but the powers of life are not forced, they  
 might as well say that the air makes flame  
 when we burn carbon &c. Next we may en-  
 quire whether organization influences life,  
 Among the lower orders the organization is  
 very simple. In the Hydatid & polypus we  
 have examples. The Hydatid is extremely  
 simple in its organization, it probably con-  
 sists of nothing but a stomach and absorbents  
 & digestion constitutes its only function. The doc-  
 trine that the above possesses life has been def-  
 ended by Mr H Hunter among his ingenious  
 experiments we have one drawn from the  
 analogy of water in its solid or fluid state.  
 a west Indian, says Mr H could never conceive  
 of such a thing as ice. When we consider that  
 blood is the great source of nutrition & that  
 every part, bone, muscle &c are formed of  
 it, it seems not irrational to conclude that  
 it has vitality. Life we know cannot  
 arise out of non depend on mere organization.  
 This of itself is nothing, wherever there is the  
 power of preservation, the power of life may  
 exist, Mr Hunter mentions this exists in  
 many substances upon which he experiments.  
 His experiments on eggs you may be familiar







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with, an egg must have the power of self preservation & therefore life, as is proved by its resisting putrefaction & preserving its temperature, you will examine the experiments of Mr Hunter on eggs. He found that a fresh egg in a freezing mixture remained fluid & if a dead egg was frozen at  $32^{\circ}$ . He also found that a fresh egg does not freeze so soon by 4 or 5 minutes as an egg which has been laid for some time and the egg froze quicker the second than the first time by 4 or 5 minutes. The same experiments were made on frogs, eels, snails &c. all these things seem conclusive of the truth of what we have said, that life may exist independent of its phenomena. The blood when exposed to similar experiments, showed the same results; this proves that life is not dependant upon organization.

We confess our ideas are imperfect concerning what life is but we know what it is not. Life then consists in certain powers; in a simple state, only a power to preserve life itself, & it has higher powers which become obvious as we rise in the scale of beings.

This considered is important in order to attend to the ~~modern~~ operation of medicines for it is







and always has been an aphorism, *medicamenta non agunt in cadavera*. There are two terms frequently made use of, & the definitions of which you will hear from another chair, These are Irritability and sensibility, on the subject of Sympathy I shall give you a few observations. This we define to be action from remote impressions and it has had several names as consent of parts &c. &c.

So extensive is <sup>the influence of</sup> this over the animal economy, that a knowledge of it is quite as important as of the circulation of the blood. It has been divided into partial & ~~universal~~ <sup>universal</sup>, an instance of universal sympathy is afforded in those few which result from local diseases, Partial sympathy is ~~discovered~~ divided into Remote, Contiguous and Continuous.

Remote is when a part is affected which is not actually stimulated. Contiguous sympathy is that in which parts sympathize with each other that are in actual contact. Continuous is when the whole arterial system sympathizes with an inflammation in a part. We have also sympathy from sensation as sighing in melancholia &c. but these are perhaps only partial. Mr Hunter died of mental mortification on receiving a rude speech from one of his rivals. Pectic fever one of the phenomena connected with this principal, has been attribu-



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ted to the absorption of pus. But that it is not produced by this we have several striking proofs as in cases of Scrophula where hectic appears before supuration takes place, and in cases of suppurating buboes &c. much pus is abstracted without hectic being induced. Why is not hectic induced by the suppurating stump after amputation of a scrophulous knee joint. Thus we see Hectic is not to be explained by supuration.

Formerly all kinds of medicines were thought to act upon the system, by being taken into the circulation. Sympathy explains their operation much more satisfactorily. We may here notice the sympathy between the Schneiderian membrane and the lachrymal sack and glands. When this membrane is irritated, these secrete and discharge a deluge of tears which washes the nostril. Light irritating and causing the contraction of the pupil another instance. The nose, throat & fauces sympathize with the diaphragm, hence sneezing &c.

The bladder, urethra and Glans penis sympathize reciprocally. A calculus in one kidney, produces pain in the other. Inflammation of one eye is often communicated to the other, and after removing a piece of iron filing from the surface of the eye (an operation, which is frequently performed







with my penknife I find almost uniformly that on the ensuing day inflammation ceases in the other eye. The stomach has a more extensive of associated actions than any other organ in the system. Hence we find apoplexy, nightmare &c from its undue distention and in cases of Dyspepsia we find a great variety of symptoms. Yellow Fevers as Dr. Harrison has observed has its throne and seat in the stomach accordingly we find a great diversity of symptoms accompanying it Dr. Physic had a patient in one of the Epidemics in this city who complained of nothing but a pain in her foot; she died, and upon examining her stomach it was found in a high state of inflammation and engorged with black vomit.

We find the same diversified sensation of pain in Proas abscipes &c. The connection of the stomach and the skin has been long observed, and often excites our surprise. The effects of cold water as reciprocally shown; are the consequences of error in diet are well known to many of you. We have instances of people who cannot eat certain substances without suffering from eruptive diseases. Some cannot eat fish without exposing themselves to an unpleasant eruptive disease.

I do not assert that Sympathy offers a complete explanation of the Modus operandi of medicines, but that it assists us much cannot be denied. And do we better explain the



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moders operandi of mercury when we say it is  
 taken into the circulation & then stimulates the  
 heart and arteries? Another thing which we should  
 keep in view is that peculiarity in individ-  
 uals families termed Idiosyncrasy, as it is a thing  
 we frequently meet with in practice. Some  
 cannot receive the odour of certain substances  
 without ~~without~~ the greatest inconveniences,  
 whilst the odour produces little or no compara-  
 tive effect upon the organ of smell in the  
 generality of men. Dr Brown who was fellow  
 pupil with me when with Dr Physic, could  
 never smell Specac: without having a paroxysm  
 of asthma Dr Barton had a pupil of whom he  
 related the same idiosyncrasy we have instan-  
 ces ~~are~~ where even the smell of fish, has had pe-  
 culiar effects. These idiosyncrasies are often herid-  
 itary and perhaps by them gout becomes a herid-  
 itary disease. Another thing though purely path-  
 ological is not unworthy our attention. I mean  
 the incompatibility of two actions (different)  
 with each other, at the same time. The fact  
 that no two actions can exist in the same part  
 at the same time, as first ally depicted by Mr  
 Hunter, is proved in a variety of instances.  
 The principal is illustrated in small pox,







Vaccination - measles &c. It is true, observations subsequent to those of Mr Hunter, Mr Hunter, prove that two diseases can <sup>exist</sup> in the same person at the same time as in the case of Mr Dapkinson's child - but they are only accidental exceptions to a general rule. The consideration of this is important, because it frequently happens that to change the action is the first & most important indication in the cure of the disease. Mr Latre has taken a view of the subject which you may attend to. I believe the same of what he says, amounts to this, that as the effect of the action is the same, the action itself must be the same. If says Mr Adams, in a few cases, art can effect the development of two diseases simultaneously, are we to conclude from those that it is a law of nature? Again and again have they inserted vaccine matter and never could both be developed without any apparent influence of the other. all this we may conclude or consider as proving the incompatibility of two actions existing at the same time in the same part of the system.

Monday Nov<sup>r</sup> 11<sup>th</sup> 3<sup>d</sup> Lecture  
In our preceding lecture we have <sup>said</sup> something on the subject of animal life & have explained it as







as approved by most <sup>of the</sup> professors in this university  
 now we go on to treat of materia medica.  
 Our branch not only comprehends active Medicines  
 but also alimentary articles whatever may  
 be their nature, and the fluids which we use  
 as drinks. In former times much was said of the  
 diet by Physicians, but now it seems to be con-  
 signed to the management of friends & nurses.  
 In many diseases proper aliment is all that is  
 necessary to effect a cure. One thing I must  
 suggest to you, and you will consider it  
 of importance to remember, that the diseases of  
 the United States require a more rigid diet,  
 than those of any other country. Again do we  
 anything & everything without attention to  
 this important part of the treatment of dis-  
 eases viz a rigid attention to diet. You will  
 therefore see the necessity of attending to diet  
 in the neighbourhood where you live & you  
 may rest assured that the Dietical part of  
 your practical duties will form an im-  
 portant object to claim your attention.  
 You will always be asked Dr. Shall I eat  
 apples, pears, peaches, oysters &c. You must  
 be able to answer them readily. We shall  
 now treat of the Nutrientia & under the







Nutrientia we mean to include all articles  
employ'd as food, drink or condiments. The  
ultimate composition of medicines not necessary  
to be known. We aim at facts and results &  
leave the more minute distinctions & accurate  
analysis to Nat. History & Chemistry.

Aliments may be divided into Animal & vegetable  
then into mild and acid. Sugar is very nutritious  
many odorous substances also are very nutritious,  
as onions & Garlic &c. One vegetable that is  
nutritious to one animal may prove poisonous  
to another as the hemlock which poisons men, is  
eaten by the horse. Goats eat Stramonium with-  
out inconvenience while it poisons so many  
other animals. There are certain poisonous  
substances (vegetables) which by exposure to heat,  
become perfectly innocent. Most of the veget-  
ables used in diet as condiments have considerable  
odours. A question has long agitated <sup>by</sup> physiologists  
whether man was intended for animal or veget-  
able food. We are surprised at the different  
modes of living among different people, and  
are astonished when we contrast the wonderful  
supper of Lucullus which cost 3000 with the  
<sup>plain</sup> simple meal of Cornaro. In some parts whole  
nations substitute or nothing but vegetables.







as in Scotland where they eat little but a fare  
of the alliacia. Rice is the sole food of many  
people who inhabit the earth. Man can  
change his diet with less inconvenience  
than some other animals. Not so easy to the  
brute creation. Boerhaave gives the case of  
a man who lived with how little life could be  
supported. Dr. Stork made some experiments to  
ascertain the

Dr. G. Dwyer of South  
Carolina was taken in endeavouring to rescue  
the Marquis Lafayette, he was imprisoned and  
fed on bread & water only & had excellent health

Whole nations live on animal food as in the  
north of Europe. The Scythians live exclusive  
ly on animal food. The Tartars also, and we  
are told the Patagonians prefer the flesh of  
the horse, to every other kind of aliment.

So far as comparative anatomy would throw  
light on the subject, we should conclude from  
the structure of teeth &c. that man was inten-  
ded for both animal & vegetable food.

It has been said that the intestines of car-  
nivorous animals, are not so long as those  
of graminivorous, longer than those of the  
human species, and from it some ridiculous  
conclusions concerning chylification have been  
deduced.



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But from all we are able to discover we must agree that both animal and vegetable food are best and that to kill and eat was one of the privileges granted by providence. The inconvenience attending a diet of either exclusively is also a proof, however we must here allow for the influence of habit. A diet wholly animal produces eruptions on the skin, Scurvy &c. while a diet entirely vegetable induces debility. But we are struck with admiration at the manner in which nature adapts food to climate, and we may say with confidence that of the two a vegetable diet is much the best. Sir George Staunton says ~~with confidence~~ in China the inhabitants have none of those violent diseases which are found in European countries where much flesh is used and that they never suffer from inflammation &c. The same observation is applicable to Calcutta. We do not say that this is entirely the result of vegetable food, but that it is in a great degree to be attributed to it.

Of Vegetable Food. The parts of vegetables used in aliments are the roots



The first of these is the fact that the  
 world is not a uniform place. It is a  
 place of contrasts, of extremes, of  
 contrasts. It is a place where the  
 rich and the poor live side by side,  
 where the educated and the uneducated  
 live side by side, where the civilized  
 and the uncivilized live side by side.  
 It is a place where the strong and the  
 weak live side by side, where the  
 brave and the coward live side by side.  
 It is a place where the good and the  
 bad live side by side, where the  
 virtuous and the vicious live side by  
 side. It is a place where the light and  
 the dark live side by side, where the  
 day and the night live side by side.  
 It is a place where the living and the  
 dead live side by side, where the  
 young and the old live side by side.  
 It is a place where the beautiful and the  
 ugly live side by side, where the  
 pleasant and the unpleasant live side  
 by side. It is a place where the  
 possible and the impossible live side  
 by side, where the real and the  
 imaginary live side by side. It is a  
 place where the known and the unknown  
 live side by side, where the seen and  
 the unseen live side by side. It is a  
 place where the finite and the infinite  
 live side by side, where the limited and  
 the unlimited live side by side. It is a  
 place where the temporal and the eternal  
 live side by side, where the transient and  
 the permanent live side by side. It is a  
 place where the earthly and the heavenly  
 live side by side, where the mortal and  
 the immortal live side by side. It is a  
 place where the human and the divine  
 live side by side, where the flesh and  
 the spirit live side by side. It is a  
 place where the material and the  
 immaterial live side by side, where the  
 physical and the metaphysical live side  
 by side. It is a place where the  
 natural and the supernatural live side  
 by side, where the ordinary and the  
 extraordinary live side by side. It is a  
 place where the common and the rare  
 live side by side, where the frequent and  
 the infrequent live side by side. It is a  
 place where the usual and the unusual  
 live side by side, where the expected and  
 the unexpected live side by side. It is a  
 place where the probable and the  
 improbable live side by side, where the  
 likely and the unlikely live side by side.  
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 poor live side by side, where the world  
 is not a uniform place. It is a place of  
 contrasts, of extremes, of contrasts.



seeds roots &c We ascertain the quantity of  
of vegetable nutriment in any article by the  
quantity of starch, sugar and oil that it con-  
tains. The chyle after it is elaborated con-  
tains much sugar. It is singular that Dr  
Galen should have doubted of sugar being  
nutritious: how far he was right in referring  
so much to an acid I shall not enquire.

That the human stomach can digest  
any thing - but that oil and sugar are more  
nutritious than any acid I am led to believe  
Dr or Dr Stork lived 14 Days on olive oil &  
flour and increased in weight four or five  
pounds. Oil tho very nutritious is not very  
easy of digestion. Olive oil is much used  
in the south of Europe where they use  
bread and oil as we do bread and butter. Mucilage  
and gum are very nutritious. The former is only  
a solution of the latter in water. Gum Araba  
is the most pure of these, and as an article of  
diet in bowel complaints, it is invaluable, it  
is nutritious & not acid in Cholera Morbus, an  
excellent medicine mixed with loaf sugar, Lime  
Water in mucilage of this Gum is very good in  
general cases of this disease. With respect to the  
common remedy, lime water & milk you  
will often find your patients vomit,







but never when mixed with mastic of Gum Arabic, This is an excellent Substitute for the former. There was a caravan in the Deserts of Arabia which existed for weeks on this alone. This being premised, we shall next speak of the more important of the nutrients as they are scattered over our extensive country by the liberal hand of Nature.

**Cerealia.** - Botanists <sup>class</sup> consider this ~~every~~ thing that makes bread. Dr. Cullen says this <sup>class</sup> is usefull from the quantity of sugar it contains and the quantity of oil also but here he was very wrong. They certainly do contain the elements of sugar & oil, but not in a separate state. Minute chemical distinctions are never of much use in estimating the operation of medicines. In the *Farinacea* we include Wheat, Rye, Barley, corn Indian Rice, Tapioca, arrow root &c. They all contain much nutriment, but differ much in <sup>quantity</sup>. Wheat, The Natural History of this you are all acquainted with & you all know that it constitutes a large share of the food of the Inhabitant of Europe & America, I shall say nothing of the process of grinding, but shall make observations upon bread.







The seeds of wheat are composed of mucilage, starch & gluten. The latter is insoluble in water, ardent spirit, oil or ether. Bread is composed of flour, water & yeast mixed up together while fermentation is going on until it is baked, this immediately stops fermentation by raising the temperature & evaporating the moisture requisite for carrying it on. Dr. Frank has proved in a very ingenious Thesis in 1790 that this is correct, & done himself honour and science a benefit. The yeast which is put into the bread contains fine air, heat being applied the air becomes elastic, the water disappears &c. Later chemists say that 1 lb of Flour will make a pound & a quarter of bread. The farinacea differ much in medical properties according as they are prepared. Unbrowned bread is very ancient as we find in the bible and we find in some cases that unbrowned bread is both nutritious and easy of digestion. Bread is very useful as carrying the saliva to the stomach. The very nutritious quality of bread is proved by Dr. Franklin who lived 12 days on 10 lb bread. A Monk lived on bread & water: when he eat 38 ounces bread and 17 of water he got fat. The greatest quantity he was able to eat was 3 46







Some cannot digest unleavened bread when in health & yet in complaints of the bowels, Crum-chers are an excellent article of diet, stale bread is much more easy of digestion than that which has been newly baked. Thus you must all remember and never let your dyspeptic patients have fresh bread. Dr Pottingill has said something upon the subject and many disputes about the comparative digestibility of the crust and inner part.

In all cases chronic diseases, bread must be well baked, there is nothing, perhaps more difficult of digestion than ~~do~~. A gentleman of my acquaintance, one of the trustees of this institution eat some ~~do~~ or half baked bread and was seized with asphyxia.

Half baked and even fresh bread have produced it. A most valuable beverage for the sick is made by an infusion of toasted in water; it becomes very useful after blows on the head and in all those cases where a rigid diet is indispensable. nothing can be of more importance than attention to this. A man said he lived long when he drank a pint of wine a day, but let tell you gentlemen a low diet is toast & water some have lived forty days on this alone.







Lecture 4<sup>th</sup>. Nov. 12<sup>th</sup>

At our last lecture we commenced with saying something on the subject of Nutrientia & said that the subject had of late years been much overlooked. One of the class wished to know after a lecture which branch or part of my lecture I considered most important. I cannot say which, but only tell you, that the present subject is quite worthy your attention. However unimportant the fermentation of bread may appear to you, at first it is far from being so. We mention the man who thought that he was living low, when he took a pint of wine per day & indeed this might have been low living to him, if his usual quantity of drink & aliment was much greater. There are some men who live almost wholly on vegetable diet, & such when attacked, with fever, we should give only bread & water. I proceed to say with the subject of bread. It has been observed that where people live on vegetable diet little inflammation takes place. The People of Asia live on <sup>un</sup>fermented rice and in Europe & America still a large portion of the Inhabitants subsist on unfermented bread & have good health. Hippocrates observed that unfermented bread was not so light & easy of digestion as when it is well fermented.







I don't intend to quote him often as Authority  
but in this I thought him worthy of mention.

But Surfas after long feeding on unfermented  
bread feel weak when they change to fermented  
to ~~ferment~~ <sup>ferment</sup> ~~Dec.~~ Pastry or that crust made by knead-  
ing up Flour with fat or Butter is very indi-  
gestible & indeed makes up one of the most  
indigestible foods of all others. Pies and Tart,  
should be forbid to the flatulent, Dyspeptic &c  
The unacrisst of the pie is the most difficult of diges-  
tion. I have known a crust of this remain a week in  
the stomach & very little changed. Boiled Doe & dumplings  
is very difficult of digestion. In the philo-  
sophical transactions a case of Death, is recorded  
from eating apple dumplings. Another error  
is that pastry is always brought after dinner  
and hence when the stomach is almost exhausted  
with previous digestion, a fresh burthen is  
imposed upon it.

Pye resembles wheat in its properties, but  
containing more sugar & more spirit, hence its  
sweet taste, and you know the quantity of spirit  
it made from it in every part of our Country.  
Wherever we find it distilled, it becomes our  
duty as our Guardians of the public health  
to raise the voice of opposition against a  
practice so pernicious to our Country.







The cheapness of this stimulus makes it easily obtained by the lower class of people & small culpable mischief ensues. Rye is also more ascendant than wheat. It is also more opening to the alimentary canal & often nothing but this is requisite to cure costiveness. These changes of diet are often much more important than Medicines. In opposite states of the system they are not to be used. Some diseases require an open and some a costive state of the bowels. In Prolapsus ani, rye mush is the best diet I know off. Dr. Physick has seldom failed with this and far as I know off is the author of the practice. Rye flour is one of the best material for cataplasms.

Barley contains more saccharine matter or else it is more easily evolved than any other of the Cerealia. Dr. Cullen says that it is less nutritious than any others. It will make bread but not so good. The graduation of different nutriment is nearly as follows—Water—Toast Water—

Barley Water or gum arabac & water with sugar. Now all these are very safe in common cases, but not in violent ones.

I have known fever kept up in pleurisy by giving too much drink. Barley water contains a good deal of nourishment.



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Pearl Barley is by no means so good as the common and the process of preparation by no means helps it, but on the contrary is more liable to be subjected to chemical changes from which the husk protects it.

Rice, This differs from all the others in containing a less quantity of azo-genous matter. It is very nutritious & supports the people of the most populous empires. In Dysentery, Diarrhoea, & Dyspepsia. It is the best diet we can employ when well boiled. It has been supposed to possess astringent properties, but for this there is little foundation. Dr.

Perival exposed all the Cerealia to the process of fermentation & found that all went into the acetous fermentation before rice. It was slow and more like animal matter. There are few Dyspeptic Patients but what can digest rice if well boiled. When well boiled the grains are separate, a small quantity of water should be used & this makes an excellent and wholesome food. Whatever irritates the bowels in Dyspepsia & Diarrhoea occasions purging. I know of nothing better here than a decoction of rice, it makes one the most pleasant & proper food for the sick. Boiling rice flour to a jelly & sweetening it with loaf sugar is a most Alimment for the sick —



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a little rose water may improve it. Children are very fond of it. Rice is good in soups. Rice milk constitutes one of the best kinds of food in Bowel complaints & I have cured them by a diet of rice milk alone. In the occasional Diarrhoea off the summer. A Table spoonfull of rice boiled in Milk & taken every hour will often expedite the cure.

*Avena Sativa*, Oats, only used in this country as food for cattle, but in Scotland the Inhabitants use it much for bread &c. a pape made of oat meal is an aperient diet & mostly has the effect of opening the Bowels.

Buckwheat, one of the luxuries of our Country & Buckwheat cakes & plenty of Butter, are very good, but not for the dyspeptic. The stomach of such will not bear them nor shortcakes nor muffins.

Indian Corn, *Zea mays*, of Botanists, native of America is very nutritious. It is sufficiently saccharine to be made, but not good for bread unless it be mixed with other flour. Corn when eaten whole is very indigestible, as is proved by its passing away unchanged through the whole alimentary canal. Dr. Barton said this was the most nutritious and most valuable of all the *Cerealia*.







Much is a healthy and digestible mode of cooking it and it is so much softened by boiling it that it becomes the best way that it can be used. The best made matthapses that we have are made of the inner husk of the corn, if we except those made of curled hays. In Italy they are much used. Sir Y. Davy has tried to analyze all the cerealia. Wheat has 900 parts out of a 1000 of silica - Barley & rye - peas & beans 374 - Potatoes 200.

Sago is the pith of the *circinalis*, it is often spoken off as a Demulcent but it is only simple gluten. When well boiled in water it forms an eligible aliment for the debilitated. When you prescribe Sago, don't give wine with it, as you will make it too stimulating. Without wine it is safe and wholesome. I recommend to your perusal Dr. Percival's book on this subject.

*Tapioca*, This grows in South America, it is obtained from the root by maceration. It also grows in . . . By much boiling it is dissolved into a very good aliment, but it must be boiled at least 2 hours, when rightly cooked it is easy of digestion.

*Arrowroot*. This is the product of the *Maranta Arundinacea*, grows in the West Indies & particularly in Jamaica. It also grows in Georgia.



*[Faint, illegible handwriting covering the page, likely bleed-through from the reverse side.]*



Dr. Barton received a letter from there which  
 stated its growth &c It affords more nourishment than  
 any thing else with which we are acquainted.  
 A common mode of preparing was with milk &  
 it curdles. But make a paste of it in water  
 first cold and then hot water, and after all add  
 your milk if you use any at all. But in  
 Bowel complaints give no milk with it. In  
 convalescence particularly this is a valuable  
 article. I have now finished the crealia.







Lecture 5<sup>th</sup> Nov. 14<sup>th</sup>

At our last Lecture we finished what we had to say on the cerealia and now we go on to speak of other vegetable aliments without regard to their botanical affinity as this throws no light on their nutritive or medicinal properties. The summer fruits next claim our attention they differ much from the cerealia and are composed mostly of an acid & saccharine matter.

The Orange is a perfect example of them. Dr Cullen says they are good for the purpose of allaying Thirst, which they do partly by their cooling property & partly by their stimulating the mucus excretions of the mouth, and Fauces, & Stomach, & by correcting putrescence. They excite the secretions, & keep open the bowels, but they are not nutritious in a great degree. In cases of Dyspepsia, & Gout, they are to be avoided. I have seen Cholera, & spasm of the Stomach, & bowels take place from their use. This effect is to be explained by the quantity of acid ~~in the~~ the Stomach; besides what is in the fruit itself. The Stomach generates much acid besides. The pulp of these fruits are very crude - Spallanzani's observations on these are worthy your attention.







Green Water Melon is very indigestible in some instances, and I have seen it vomit up, 3 or 4 days after it was put into the stomach, very little change & no signs of putrescency were about it. Flatulency, vomiting, purging, colic &c follow the use of these unripe fruits. The juice of the orange is easy of digestion, but this observation is applicable to the water melon, pine apple &c. Among my Patients I find that the pulp always occasions inconvenience to the convalescent. Dr. Cullen gives a pretty good account of all these & I shall refer you to him. There are many among them that should be roasted & many that should be boiled. Stewed with rich syrups they constitute the sweet meats of the confectioners, and when in this state they are best when eaten with milk. Peaches, Quinces, Raspberries, make the best. In this way the crab apple is a very pleasant fruit, which when dried is very improper to be eaten.

One of the best ways of using these fruits as a Diet for the sick, is the common roasts apple, it prevents hunger, & keeps open the bowels. I often prescribe it where much nutriment would be improper. Water Melons, & Cucumbers, sometimes produce the most dreadful colic &







yet are much eaten in this City in the summer. An absurd and fatal prejudice, has prevailed among people, that it was necessary to swallow the stones of cherries & other fruits in order to assist digestion, it arose from the mechanical ideas of digestion which considered them as necessary to assist it in the human species, as pebbles in the stomach of the Gallinacea. The danger of this we must be convinced of, from a recollection of the many dreadful symptoms induced by it, as witnessed in colics, flatulencies, & Deaths. Dissection in these cases has shown a large ball of stones so solidly agglutinated as to stop up the alimentary canal. The Edinburgh Vol of Transactions contain an account of Death from cherries or plum stones. Dr. Physick gives a case which fell under his notice of Death from persimmons. When such things has been swallowed we should give first an Emetic and then Castor Oil until the alimentary canal is completely emptied. Dr. Cullen gave the preference to the pulp of grapes over all others, but Dr. Burton preferred the Strawberries, perhaps the latter comes to greater perfection in this than any other Country.







Grapes, have been prescribed in Dysentery, but they are very improper except the juice.

Of the dried fruits, we may say that they are good in costive habits. Many of our own fruits dried have excellent properties. The roots, leaves, stems, &c of several vegetables particularly the varieties of the cabbage are much used as whole some aliment. Among these we may use the Cauliflower. Many of these is indigestible & improper for the female stomach. Cold slaw is less apt to disagree with the stomach than any other way in which cabbage is cooked. Perhaps the same may be said of dale-ry, as a general rule we may say that the leaves &c are flatulent. One carrot is very tender & a good vegetable, but not very easy of digestion. I now hasten gentlemen to another very important article of our course, the Potatoe, this as I have before told you contains much fecula, about  $\frac{1}{4}$  According to Sir H Davy. In Gout, diseases of the bowels, it has been accused of inducing flatulency &c. But certainly is one of the most safe and valuable of all vegetables & when mixed with flour makes an excellent bread. Upon the whole it is one of the most valuable & wholesome vegetables we have



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I refer you to Dr. Cullen for the remainder of the Vegetables and go on to say something of Animal food. But first we must recollect that the eccentricities of the human Stomach are very great. Dr. Rush said that the stomach become shy of new acquaintances. This is not quite so correct as another observation of his, that green pees when they first come almost always produce colic &c. That animal food was intended for man at the present day is not denied and ~~it~~ has been used in all ages, and in all countries. The Flesh of Quadrupeds has been said <sup>by Cullen</sup> to be the most proper aliment, because it is already assimilated to ourselves. This is a futile argument & would prove that Blood was the best food for us, when we know that blood is one of the most indigestible of foods. It would also reject the Cerealia as they are dissimilar to our fluids & solids. Now the Cerealia is among the substances most easily converted into chyle & Dr. Cullen must be wrong. It is not necessary here to enquire what are the peculiar properties of Animal food, the ultimate composition is of little consequence to us & chemistry has thrown little light on the subject of comparative Nutrition.







Dr Cooper of Carlisle has given some opinions  
 relative to the nutritious qualities of food to which  
 I refer you and I hope that you will not forget that  
 that the process of digestion is performed by the  
 Gastric Liquor. The flesh of Carnivorous ani-  
 mals is not so good as others, old authors have en-  
 deavour to account for this, on the principle  
 of Calhalescence, but this is entirely unworthy  
 of notice. The tenderness of animal flesh is  
 influenced by sex, age &c. The female is more  
 tender than the male. The male is more dense,  
 and castrated animals are better than the male who  
 can propagate his species, we have evidence of this  
 in our beef &c. Age also influences the flesh of  
 animals it becomes more dense & tough as the  
 animal becomes older. But lamb or veal is more  
 difficult of digestion than Beef or mutton. Dr  
 Stoddyce says that veal is very indigestible, Pork  
 also should be eaten in small quantities, but  
 not fit for our climate. We should prescribe  
 vegetable diet for our Patients, entirely in this  
 country. We may lay it down as a general rule  
 that fat animals are more easy of digestion than  
 poorer ones—more gluten in one than in others.  
 Some parts of Beef are more difficult of Digestion  
 than others, you all know how this applies to beefsteaks.







The Blood, glands, ligaments, tendons &c. you all know are not to be digested but after long boiling and then they become a wholesome article of Diet. By being made into a jelly by Papins digester they are an excellent aliment. These Animal substances are very good for the quantity & quality of the nourishment contained in them. The Flesh of the Cow is composed of Gluten & fat but less than that of pork. You know how much the flesh is altered by castration, that the Bullock is tender & the Bull tough. The capon differs from the cock. Veal when first killed is difficult of digestion, but when kept two or three days it loses that string appearance which you find at Table. Mutton should not be killed before 6 or 7 years, at this age it comes to perfection. They say in this country that our mutton is not so good as in some parts of Europe, but we do not attend to perfecting it, or it would be equal to the English or Welsh. Pork has its fat more completely diffused throughout the cellular substance more than any other meat, and is improper for the Sedentary, but fresh pork with much vegetable aliment is a proper food for the healthy. The wild meats of our country are very good. Ben Venison is perhaps the best in the



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would be very easy of digestion, both when fresh, & when long kept. It is not very nutritious.

Judge Cooper has said that Beavers meat is the most nutritious of any in the world, but from its scarcity does not promise to be very useful to our country.

Birds, supplies us with some of the most Luxurious articles of the Table. Their Flesh differs from Quadrupeds, and those of them that feed upon Flesh are not good. The Duck though it sometimes eat flesh is very good. The Turkey stands at the head of these, & in this country is very large we have it weighing 25 lbs. The common fowl differs little from the Turkey, the soup made of them is one of the best things for the sick, An Old cock or hen is one of the toughest things we can find & should be boiled several hours. An Old fowl contains much gluten, the hen is more tender than the cock & the capon is better than either. In America the capon is almost unknown, while in Europe & India they are very common. The Goose & Duck are more difficult of digestion, than those which have been mentioned. It would consume too much of our time to enter into a minute description of these, you will therefore



I have been thinking of you very much lately  
 and wondering how you are getting on.  
 I hope you are well and happy.  
 I have been very busy lately  
 but I have managed to find some time  
 to write you a few lines.  
 I have been thinking of you very much lately  
 and wondering how you are getting on.  
 I hope you are well and happy.  
 I have been very busy lately  
 but I have managed to find some time  
 to write you a few lines.  
 I have been thinking of you very much lately  
 and wondering how you are getting on.  
 I hope you are well and happy.  
 I have been very busy lately  
 but I have managed to find some time  
 to write you a few lines.



read bulletin. Dr. C. has said that the blood rendered the animal more alkaline & has accounted for being so good. Of all these the canvas back duck is the best & Dr. Barton said that it was because it lived on vegetable matter. It is a most delicious meat for a winter repast when we want a highly nutritious rich and Stimulating Dinner.

### Lect<sup>r</sup>. of Nov<sup>r</sup> 15<sup>th</sup>

At our Last Lecture we commenced the consideration of the subject of animal food. Among these may be mentioned Eggs. They are the most nourishing and least stimulating of all animal food & the most easy of digestion. This assertion is old as Aristotle & was repeated by Harvey. Aristotle said that which would nourish the child must be good for men and we think a soft Boiled Egg along with an oyster to be the best food for convalescents, and hard boiled eggs the worst. The white of a hard boiled egg when dry will scratch glass. The only egg we use are those of the hen & occasionally those of the Duck. Eggs are much used in countries where religion prevents the use of flesh.







The different ways of cooking eggs as omelets &c are all less healthy than soft boiling. When you use them for your Patients don't forget to cut off the hard parts. Poaching eggs by putting them into hot is a good way of cooking them. When boiled they should only be left in 2 minutes, after the water begins to boil. Eggs are often used to give flavour to other foods as veal cutlets, oysters &c. When these are cooked with flour ~~eggs~~ they are not so good. But I shall resume the subject when I get upon cooking. Eggs with brandy & wine are the most perfect nourishing & supporting thing we can use in Typhoid cases. Eggs & sugar is extremely nutritious, I now speak of both parts of the egg. Galen preferred the yolk and I also prefer it as the most valuable part of the egg. But we should be carefully always to have our eggs fresh, stale Eggs are not so good, if they have the least odour, which does not belong to the fresh egg they are not fit for use. As before mentioned they are among the best articles for patients in diseases of a typhoid type, and in the typhoid pleurisy which is again in this country a few years past, they when mixed with wine or brandy forming what is commonly called Eggney are very efficacious in supporting & raising the patient.



The first of these is the fact that the  
 system of taxation is not uniform  
 throughout the country. In some  
 places the tax is very high, while  
 in others it is very low. This  
 is due to the fact that the  
 government has no power to  
 levy a uniform tax. It is  
 left to the discretion of the  
 local authorities to fix the  
 rate of tax. This is a great  
 disadvantage, as it leads to  
 inequality and injustice. The  
 government should have the power  
 to levy a uniform tax, so that  
 all citizens are treated equally.  
 Another disadvantage is the fact  
 that the tax is not paid by  
 all citizens. Many people  
 evade the tax, and this is a  
 great loss to the government.  
 The government should have the  
 power to enforce the tax, so  
 that all citizens pay their  
 share. This would be a great  
 improvement to the system.  
 The third disadvantage is the  
 fact that the tax is not used  
 for the benefit of the people.  
 The government spends the money  
 on other things, such as the  
 army and navy. This is a great  
 waste of money, and the people  
 should have the right to decide  
 how the money is spent. The  
 government should be forced to  
 use the money for the benefit  
 of the people, and this would  
 be a great improvement to the  
 system.



The next animal substance that I shall mention will be fish. In some countries as in the North of Europe they constitute all the diet of the Inhabitants. Haller says that is probable that Fish was the First animal use by man as food, because he would taste that one which died without a groan. Herring and Sturgeon afford substances to more people than any thing & the quantities sometimes caught at a haul are almost incredible. It has been said that in the Potomack 372,500 were caught at one haul. There seems to be as much difference in different kinds of Fish as in flesh. Catfish and some others are more difficult of digestion than sea bass, Sheepsheads &c. Mackerel, eels and catfish are the most difficult, but the palate should govern us in their use. A diet of Fish is <sup>said to be</sup> favourable to generation. This is not confirmed by experience. The Esquimaux & others live almost entirely upon Fish and are by no means fruitful. From what I have learnt, I believe fish are not favourable to longevity. It appears that the people who live on them never survive 60 or 60 years. John Bacon said that fish was antiseptic, but as the doctrine of putrescency in the living body has been exploded, the conclusions must fall with the original proposition.







We don't think that people subsisting on Fish are less subject to inflammatory diseases as they are when they live on vegetables. When the Catholics use it for 3 or 4 weeks they mostly become weak, it may be determined positively that fish is less nutritious than flesh, Dr. Cullen opposes the opinion of Haller, but we can decide pretty justly by reflecting on the comparative qualities of Bacon & fish.

Oysters, there are a species of shell fish more perfect in the United States than in any other part of the world. Some Europeans do not like our oysters at first but after eating them for sometime prefer them to all others. The English oyster are much smaller & much inferior in quality to ours.

There are some condiments also used as condiments, among them are oysters. The best way of ~~cooking~~<sup>eating</sup> oysters is raw or broiled, when fried they are not so good, it renders them difficult of digestion, Bread soaked in the oyster juice, constitutes one of the most safe, pleasant & agreeable thing that sick people can taste. Dr. Physick who was the first that used, has found them to be it when every thing else has been rejected. I wish you to remember this.



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Clams, are tougher & harder than the oyster  
 and are mostly to give flavor to soup. With re-  
 spect to snails &c which are eaten in some coun-  
 tries I shall say little of these but they are used  
 by cancer cures. They first kill the snail with  
 salt and then put it into phagedenic ulcers. I  
 avoid the natural history of all these you will  
 perceive, and include them under the general  
 name of shell fish. But these last are insects.  
 Dr. Cullen has made no distinction between  
 the Lobster & crab - but the Lobster is much  
 more tough and has less oil than the crab.  
 The crab being less dense & tough is therefore  
 easier of digestion - we have a soft crab in  
 the Cherapeak which is very good. But the  
 Lobster is the most indigestible of all these, one  
 of them is taken with salt the other with mus-  
 tard & other condiments. We often find colic,  
 cholera &c produced by lobsters, never by crabs.  
 Of Amphibious animals there are few in this  
 that we eat. I wish we did not eat snakes, we have  
 several instances of this recorded and Dr. Boster  
 mentions that several British officers eat the soup  
 of the flesh of the Rattle snake. The viper has been  
 also used, but I am glad to find this loathsome rep-  
 tile is no longer mentioned in the Mat. Medica







The sea Turtle, snapper & terrapin are all used  
 The French are peculiarly fond of the soups of these.  
 The flesh of the snapper is tough & insoluble.  
 The property of these soups depends much upon the  
 condiments used with them and they seem little  
 the superior to seal. The Terrapin is better  
 than the snapper and the Physicians here  
 now give it to their patients with safety.  
 The Epicures say it should be cooked with butter  
 and pepper alone.

Milk, next claims our attention and the difference  
 between a woman's milk & cows is  
 known to you. <sup>all</sup> Milk you know is composed of  
 curd, oil & water. Cows milk when fresh  
 is nutritious & medical men have said ~~and~~  
~~said~~ because it is similar to chyle it must be  
 easy of Assimilation. But as we have before  
 said, if this were true, blood would be the best  
 food. Milk you will recollect is coagulated in  
 the stomach & subject to the common ~~work~~  
 of digestion. Milk you will recollect is coag-  
 ulated in the stomach & subject to the com-  
 mon process of digestion. It does however constitute  
 an eligible diet for persons in early & advanced  
 life. Early life particularly it is proper, but in  
 advanced life the stomach don't bear it so well,







it being apt to produce acidities of the stomach. In many diseases we are under the necessity of prescribing milk & it is the most important remedy we can find. I witness its good effects in a Venereal patient whom I saw in consultation with Dr. Rush, he was to use his own words rotten with the Pox and a suppurated callosity was one blotch of loathsome ulceration. He was put on a Diet of milk & bread & in a short time was so much recruited as to be out of danger.

### Lecture 7<sup>th</sup> Nov. 18<sup>th</sup>

At our last lecture we considered milk as a diet and I gave you some cases in which its efficacy in removing diseases was evinced when unapplied by Med<sup>ic</sup>. During the reign of the humoral pathology, milk was recommended because they thought that it was immediately converted into chyle. Dr. Cullen has said that it is good in cases where the fluids are vitiated &c. you know we at the present day have discarded the idea of vitiation of the fluids by putrescency. But you will not forget that milk in Debility induced by whatever cause is our most important remedy. In lues venerea & many other diseases where the powers of the system are exhausted & in Cancer par-



(1) The first of these is the fact that the  
 human mind is not a blank slate at birth.  
 It is pre-occupied with a host of  
 ideas and feelings which are not  
 derived from the senses. These  
 ideas and feelings are the result of  
 the influence of the environment upon  
 the mind. The mind is thus a  
 product of its environment, and  
 the environment is a product of  
 the mind. This is the first of the  
 facts which are to be considered.

The second fact is that the human  
 mind is not a passive recipient of  
 impressions. It is an active agent  
 which selects and interprets the  
 impressions which it receives. The  
 mind is thus a product of its  
 environment, and the environment is  
 a product of the mind. This is the  
 second of the facts which are to be  
 considered. The third fact is that  
 the human mind is not a single  
 entity. It is a complex of many  
 different parts, each of which has  
 its own function. The mind is thus  
 a product of its environment, and  
 the environment is a product of the  
 mind. This is the third of the facts  
 which are to be considered. The  
 fourth fact is that the human mind  
 is not a static entity. It is a  
 dynamic entity which is constantly  
 changing. The mind is thus a  
 product of its environment, and the  
 environment is a product of the mind.  
 This is the fourth of the facts which  
 are to be considered. The fifth fact  
 is that the human mind is not a  
 single entity. It is a complex of  
 many different parts, each of which  
 has its own function. The mind is  
 thus a product of its environment, and  
 the environment is a product of the  
 mind. This is the fifth of the facts  
 which are to be considered.



particularly you will find it in the most im-  
 portant article of the Materia Medica. A  
 Lady was under my care with Cancer, she  
 suffered much from pain & seemed to sink  
 daily under the irritation produced by it: I put  
 her on a diet of milk and vegetables and she  
 was much relieved by them. I hope therefore  
 that Chronic Ulcer & Cancer you will not for-  
 get its value. In Phthis milk has been much  
 used & Apes is still a popular remedy (see story  
 from Van Swieten). There are several other kinds  
 of milk used but we should not use them unless  
 we are necessitated so to do. Milk soon loads the  
 Blood vessels & has done mischief in inflammatory  
 diseases and in some stages of Phthisis. a  
 diet of milk is too nourishing in these cases. Whey  
 in some cases is very useful, but we may give the  
 milk in those cases where the febrile action  
 is not increased by it. We have before mentioned  
 that milk is a heterogeneous fluid. The cream  
 floats upon the top & the greater the surface  
 we expose the greater the quantity of cream will  
 be obtained. Butter is a highly nutritious sub-  
 stance made by churning cream, and possesses  
 all the properties of Animal fats.



I have been very much interested in the  
 history of the country, and in the  
 progress of the various sciences, and  
 in the state of the arts and  
 manufactures. I have been particularly  
 interested in the progress of the  
 sciences, and in the state of the  
 arts and manufactures. I have been  
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 been particularly interested in the  
 progress of the sciences, and in the  
 state of the arts and manufactures.



The coagulation of milk is effected by several means, by suffering it to stand, by adding rennet &c. after the curd is dried it forms cheese. This differs in quality according to the different qualities of the milk from which it is made. They are all nutritious and stimulating & are proper food for the Laborious. Skim milk cheese is among the most Indigestible of all food. Brie cheese is easiest of digestion & resembles butter more in its composition. I have called your attention before to their property of checking diarrhoea. I mentioned to you a case in the Pennsylvania hospital, he was a venereal patient much exhausted by the disease & weakened by Diarrhoeas. Various remedies were administered without relief. I gave him cheese in various forms, toast &c it was very useful to him. This though very insoluble in the stomach, is very good for the hard working and those also who undergo much exercise. The oil of old cheese has been applied to old ulcers of late with very promising success. A case of ulcer in the nose was cured by Dr. Physick & myself with this remedy, which had resisted Lunar Caustic, Sea Water &c. The older cheese is more stimulating & acid it becomes Epicure, prefer it old & mouldy.







The whey constitutes by far the largest portion of milk. Dr. Young of Edinburgh has proved that  $\frac{7}{8}$  of the whole quantity of milk is water, oil, sugar & several other things are found in milk. The whey of the milk is unquestionably the most proper part of the milk for pulmonary consumption. In dyspepsia frequently an obstinate disease, you will often find milk to disagree with your patients, & here whey will be best part you can employ. Butter contains much oil & is therefore nourishing & buttermilk has been advantageously employed in some diseases. Dr. Shippen used to relate that a patient of his, was benefited by using it. Wine whey is among the most pleasant & valuable ways of preparing this for the sick & I hope you will all make yourselves acquainted with the manner of preparing it. — You Boil your milk & while in a state of effervescing add half the quantity of wine — Madeira, Sherry, or Teneiffe — You then heat it again to the boiling point and strain it through muslin. You will also take care to take out the curd whole & not break it. Strain it through a thick sheet of muslin now if you want a weak wine whey, to add less wine will not make it so, but you must dilute







The strong wine whey with mucilage of Gum  
 Arabic you may add about  $\frac{1}{2}$  to 1 pint of the  
 whey which makes a gently stimulating &  
 very nourishing drink. Dr. Barton thought  
 it difficult to produce intoxication with wine  
 whey because the alcohol evaporates, but still  
 we are able <sup>to</sup> produce intoxication with it. Milk  
 punch is another way of using it, but it is im-  
 proper when the powers of the alimentary  
 canal are impaired. It is made by mixing  
 rum, sugar & milk together, and putting a  
 little nutmeg on it. You will therefore be  
 cautious how you administer this in weak  
 habits & where the stomach & bowels are dis-  
 ordered. It is useful in chronic debility but  
 in most cases of convalescence wine whey is bett-  
 er. In the typhoid fever which has prevailed in  
 our country, milk punch has been much used and of-  
 ten with good effect. The chemical history of milk  
 I have omitted but refer you to Dr. Cullen & others.  
 This finishes what I have to say respecting food from  
 the animal & vegetable kingdom. Dr. Barton  
 was in the habit of mentioning calcareous earth  
 with carbon & C as nutritious, on them only shall  
 we observe that the human organs are capable  
 of converting almost every thing into a life.







The Physician, Gentlemen, must often go from the Chamber into the Kitchen and therefore I shall next give you some observations on cooking.

This science is the application of Heat to the very purpose of preparing our food. Some Articles are ~~improved~~ improved by heat & others are not. Cabbage & Turneps are not improved by cooking. Turneps when raw seldom produce indigestion. Apples when roasted are much better than when in their crude state, they become much less flatulent. The Indian turnip you all know when cooked becomes a most excellent. The cooking of animal food also has different effects upon it. The object of cooking is to render it more succulent, soluble & easy of digestion. Keeping meat a few days after it is killed renders it tender as we find in poultry & venison. The game which is killed in the highlands of Scotland is used in London, six weeks afterwards, for the Table. We know when it is kept too long by its putrid state. Rancidity is another thing to which animal fats are subject & the goose & duck are often so from keeping. There are certain condiments that deserve a place in our house & the most important is salt. It is the best antiseptic we have & is used for preserving our animal food from putrefaction.



The following is a list of the  
 names of the persons who have  
 been admitted to the office of  
 the Secretary of the Board of  
 Education since the last  
 meeting of the Board. The  
 names are given in the order  
 in which they were admitted.  
 The names of the persons who  
 have been admitted to the  
 office of the Secretary of the  
 Board of Education since the  
 last meeting of the Board are  
 given in the order in which  
 they were admitted. The names  
 of the persons who have been  
 admitted to the office of the  
 Secretary of the Board of  
 Education since the last  
 meeting of the Board are  
 given in the order in which  
 they were admitted.



When I say antiseptic you will understand me as only meaning a matter which preserves from putrefaction out of the body. Solomon has wisely said, Is there any taste in the Egg? We might have asked the same of all animal substances in their natural state. Salt meat may be set down as the most indigestible food for labouring men. Pork & beef are chiefly used in this country. Beef, venison, & mutton are often dried & smoked & used as a relish, you will often enquire of your patients if they are in the habit of taking much of these, especially your Dyspeptic patients to whom they must be positively interdicted. Bacon forms a good part our diet in this country. We have before stated that Pork is more indigestible than Beef or mutton. When we eat ham we are apt to eat too much food and it also creates thirst. You may give fish, for its stimulating, & not for its nourishing quality. You will recollect that I differ from Dr. Cullen on this point. Salt provisions have been celebrated in Cholera Infantum &c but they are to be suspected & are often dangerous. Mr. Goldsborough of Maryland had a child that had been troubled with Cholera for some time, at length he brought it to Philadelphia, I attended the child & they seemed disposed in its convalescent state to give it a slice of ham. It was obviously







worse for it & was almost killed, it had previously  
 lived on Arrow root. Two other cases of a similar  
 nature have occurred within my knowledge. So  
 much for Ham in Cholera Morbus. Dr. Rush  
 was in the habit of giving animal food in form  
 of Ham. We should when we use hams boil them,  
 in the manner recommended by Dr. Rush who  
 got the mode from W. Jefferson, viz. to boil them  
 twice. I am surprised at an observation of Dr.  
 Willick on this subject. He says boiled hams are  
 not so digestible & prefers frying them. This is a great  
 Error, when boiled in the way recommended by W.  
 Jefferson, they are far from being indigestible.  
 When boiled they contain much empyreumatic oil,  
 In a state of Health & in warm climates they should  
 be often used. Dr. Cline says much against their  
 use - he weighs like a madman. They are certainly  
 only a proper food when the powers of the system  
 are impaired, but to the convalescent & valetu-  
 dinarian, they must given with caution. Fish  
 are salted & constitute a great portion of human  
 subsistence. Shad & herrings, are the most com-  
 mon. They as we have before said contain little  
 nourishment, but their stimulus are very good.  
 Vinegar, this when used to excess injures the  
 powers of the stomach. Dr. Rush has very







properly compared pickles, to vinegar in a solid  
 form. One way of supplying heat is by boiling  
 whereby the food is rendered more soft & soluble.  
 Raw meat is longer in undergoing the digestive  
 process than when cooked. The Indian who has  
 a long voyage to perform, prefers his meat raw, &  
 labouring people prefer sausage &c. In some cases  
 the soup is better than the meat & Count Parnford  
 found that the potatoe lost  $\frac{1}{4}$  of its weight by boiling.  
 The French carry the art of cooking to the greatest perfection.  
 They boil their soups for a considerable length of time,  
 they take 5 lb of poor beef & boil it 3 or 4 hours over a  
 slow fire. Skim of the fat & lay it aside, then expose  
 the soup to cold until the oil on the top congeals  
 and you can get the whole away. I wish to caution  
 you against a common dish for the sick. Calves foot  
 jelly as it is used is adapted to few cases and is in many  
 instances improperly used. These things may seem  
 unimportant & ill suited to the serious occupation  
 of a public Lecturer, but Gentlemen, you will find  
 them of usefull practical application, & seldom do  
 you find a nurse who can make soup right by.  
 Another thing you will observe, viz. not to suffer  
 flatulent vegetables to be put into your soups & do  
 not suffer them to be thickened with flour.







You want a preparation of Beef only & tell your cook so - I speak now of cases of the stomach being disordered or the bowels out of order. These soups are very important for the sick & convalescent, & old people &c.

Beef Tea, you should all know how to make it, cut your beef into small pieces, wash the blood out of it & then boil it taking care to scald it first - boil it in a covered vessel. How sweeter soup that the animal should first previous to killing. This is an useless refinement. Chicken broth & soups are not to be used in Inflammatory diseases. They are not less nutritious than Beef Tea. Chicken broth is often improper in yellow Fever, even fatal and in that ticklish state of the system, is one of the most dangerous things that can be given.







Lecture 7<sup>th</sup>

We in our last lecture said something of cooking & the best way of making soup for the sick. It is not necessary to enlarge upon it here, we shall only add that various spices & wines are sometimes added to soup. the only serve to render it more stimulating. Calves foot jelly you ought to reprobate as a dangerous article of diet for the convalescents. You know that it is mixed up with spices &c &c. & is not for the sick. Beef Tea is much better. The very bones of animals may be made into soups & jelly by papiers digesta but such soups have a soapy taste & are not savoury. A Method of preparing vegetable soups, when low is required, has been practised by Dr. Physick, & in this City is known by the name of Dr. Physicks soup. Take three large potatoes, an onion, & a slice of bread & three pints of water, boil it down to two, season it with salt &c. to give it flavour. It is an excellent weak soup & is not so stimulating as Chicken broth. If you have a mind to call it chicken Broth to suit the partiality of your patients, you may put a chickens wing into it. In roasting flesh the aqueous parts are evaporated & it is more stimulating than when boiled, Count Rumford invented an oven for roasting meat, it is of great importance to the cook.



I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the  
 and the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
 Sir, your obedient servant,  
 J. B. [Signature]  
 [Faint text continues, mostly illegible due to fading and bleed-through from the reverse side.]



Broiling is a rapid way of roasting, the juice is confined after the outside is crisp and is among the best ways of preparing flesh for the table, Beef steak, mutton chops &c are cooked in this way. Frying under certain circumstances is scarcely to be prohibited, particularly in fowl &c. Stewed meats are now less common. There are many condiments used, of salt I have spoken, pepper, mustard should be mentioned, they all stimulate the tongue & are improper in inflammatory diseases. Our most powerfully condiment is capers. It is important as an article of medicine. Vinegar also is a good condiment when used in a quantity that is moderate.

Drinks, of these the most proper is water, it is proved by those nations having best health who use it exclusively. Water is often impregnated with mineral substances &c in this country, the water of springs, wells, & rivers are good except when in the former, we find lime, salt &c in solution. Next to simple water, the infusion of certain vegetables, in the form of Tea, as balm, sage & next apple water. Then mucilage which is a solution of gum in water. The mucilaginous matter may be called the condiment of drink. Many other fluids might be mentioned but as they all contain much water it is not requisite to notice them.







From the days of Noah to the present time,  
man kind has been attached to ardent spirits.

The Physician, is bound Gentlemen, to wage con-  
tinual warfare with this Hydra of calamities,  
In America we have an excellent substitute for them  
the Cyder. Among the most healthy of our people are  
the Inhabitants of the Eastern <sup>States</sup>, who use much  
Cyder. It contains little Alcohol, but is not to be  
used in Gouty habits, or habitual disorders of the  
alimentary canal or digestive organs. Small  
liquors are used in this City as in European  
Countries. In London agreeable to a report made  
in 1800. 1,333,178 barrels were made in that  
City alone. Barley is principally employed  
for making malt Liquor. It is put into water  
untill it germinates &c. Of this porter & ale  
are made, an addition of hops are very usefull as  
it qualifies the effect which the alcohol would  
have on the stomach. Porter is the most perfect  
preparation of malt liquor, both are nutritious  
but porter is much more uniform in its qual-  
ities than ale - Table & small beer are the same  
with the former, but contain less alcohol. These  
are all good drinks for the active & laborious,  
but not for the flatulent or sedentary, for such  
wine is to be preferred.







Wine is composed of vin acid, alcohol, sugar &c, & is not so nourishing as malt liquors. Its most active ingredients are alcohol. A number of experiments were made by Dr. Blaud 1811 & 13 on wines, in which he found that Port wine contained from 22 to 26 per cent of alcohol. Madeira 19, 21, 24. Claret 12, 16. Sherry 18. Lisbon 18. Champagne 16. Red Sherry 11. White Do. 12. Burgundy 14. Now all this does not accord with experience. Ale from the experiments contained 9. Porter 6. Cyder & Perry 9. Our Cider in this Country is much weaker than Porter. Brandy & Rum were 33. Holland Gin 51. Port wine nearly half as strong as brandy. The wine most used here is Madeira. In low states of disease this is the best. Teneriffe & Sherry, on the next, as they approach nearer the ~~matia~~ ~~maxima~~ Madeira than any others. The London particular Teneriffe, as it is called the best. Lisbon wine contains too much sugar. Champagne is stimulating in a high degree. I have used it in Typhus fever & found it excellent, the pulse rose under the use of it. I think it is to Madeira what ether is to alcohol. Port wine possesses considerable astringency it is therefore used in the diseases of



The first of these is the fact that the  
 system is not a simple one. It is a  
 system of many parts, each of which  
 has its own function, and all of which  
 are interrelated. The second fact is  
 that the system is not a static one. It  
 is a dynamic system, and it is constantly  
 changing. The third fact is that the  
 system is not a closed one. It is an  
 open system, and it is constantly  
 interacting with its environment. The  
 fourth fact is that the system is not a  
 simple one. It is a complex system, and  
 it is constantly changing. The fifth fact  
 is that the system is not a static one. It  
 is a dynamic system, and it is constantly  
 changing. The sixth fact is that the  
 system is not a closed one. It is an  
 open system, and it is constantly  
 interacting with its environment. The  
 seventh fact is that the system is not a  
 simple one. It is a complex system, and  
 it is constantly changing. The eighth fact  
 is that the system is not a static one. It  
 is a dynamic system, and it is constantly  
 changing. The ninth fact is that the  
 system is not a closed one. It is an  
 open system, and it is constantly  
 interacting with its environment. The  
 tenth fact is that the system is not a  
 simple one. It is a complex system, and  
 it is constantly changing.



Judge Cooper says that in England that port wine is composed of Sloes, Elder Berries, water alcohol or brandy. The fresh wines are all more or less acid ~~and~~ <sup>acid</sup> & should be interdicted to persons afflicted with the gout. The old English swillers, often attribute their Gout to the low French wines, this is nonsense. The French low wines are much like our cider and no stronger. They make the best wines and are the most temperate of all European nations. The Peasantry consume wine, much as we do cider. In this country we have wine of Gooseberries, currants &c. all bad, they become too soon acerb. Adiant Spirit. Brandy, rum &c. You will not forget that one half consists of Alcohol, and to this they owe their active principles. You will be often asked is brandy, Gin, or what is the best? Common people say Brandy. There are no doubt cases where brandy is useful. I shall conclude with saying with Dr. Rush, had I a thousand tongues I could not portray the evils arising to society & mankind from these liquors. I must conclude this subject by doing an act of justice to Celsus who has undoubtedly done good on Diet &c. Of Food, man can adapt himself to any food. The quantity use



I have been thinking of you very much lately  
 and wondering how you are getting on.  
 I hope you are well and happy.  
 I have been very busy lately but  
 I have managed to find some time  
 to write you a few lines.  
 I have been thinking of you very much lately  
 and wondering how you are getting on.  
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can take cannot be definitely ascertained so many circumstances varies the call for regimen, but experience is our only guide. We should take that which best agrees with us. The diet of the ploughman should differ from that of the student. Children says Dr. Prosear eat more frequently than adults, their mother's milk first - then cows - then cereals of which arrow root is the best. It is retentive on the stomach. Make it into a paste & boil it & sugar & water. Sometimes with cows milk. Children should subsist on vegetables in a great measure till puberty. Increase the stimulus with the age of your Patient, but very gradually. Dr. Cheyne has advanced a different opinion & says we should descend out of life as we ascend into it. He is wrong: old people should have short intervals between their meals. At what time of life, the use of fermented liquors should be commenced, we cannot say - If you have a Patient who has been accustomed to a Luxurious diet, we put him on a low diet by simply withdrawing his wine. A temperate man to be put on a low diet will require bread & water. Men have differed with respect to the number of meals to be eaten in a day, some say one in 24 hours others say six at eight.



X



The common and most natural mode is the best several times per day. Breakfast & Tea are mostly light meals, we should not eat supper & go immediately to bed, such a practice I warn you against as unfavourable to health.

### Lecture 8<sup>th</sup> Nov 21<sup>st</sup>

It remains for us Gentlemen, to make a practical application of what we have said on the subject of nutriment. We shall as you may expect, confine our remarks to the diseases of the U.S. There are some diseases in which we must use a very low diet as inflammation of the Brain, here Food & water will be sufficient to support the patient & to keep down the action of the heart & arteries. Patients can live long on this alone, but we cannot tell how long an animal may live without any sustenance, Le Gallois says a rabbit lived 3 weeks, and a Physician has recently given a case where a patient lived forty days. Food water may be given in every case of acute inflammation. Tea may be given also but without any sugar, & cream, when we wish little nourishment as by these are rendered more nutritious. That a diet of Bread & water, when taken in a small quantity







weakens, we know by Mr. Stark's experiments  
 he lost 5 lbs in weight when he lived on bread &  
 water & only  $\frac{1}{2}$  so daily. But when he took 38  $\frac{1}{2}$  he  
 fattened. Another article for the sick is panada.  
 When made simply of Bread & water sweetened it  
 is good nourishment. A list of these may be given  
 nearly in the following order - Soak water, bread  
 & water, weak panada, Barley water if not too  
 rich is good, but when much boiled it becomes al-  
 most as strong as animal food. Linseed Tea,  
 Gum Arabic & water are also among the mild  
 mucilaginous Nutrients. Chocolate has been  
 much used for the sick, but it contains much  
 oil & is apt to become rancid on the stomach &  
 indigestible; but the oil of chocolate may be  
 skimmed off & then it agrees better with the  
 stomach. Another form is the Infusion of the  
 shell of the cocoa - call chocolate Tea, Summer  
 Fruits, boiled rice, arrowroot &c are all among  
 the proper food for the sick. We shall now  
 say something of the animal aliment  
 for the sick & convalescents. The first we no-  
 tice is the liquor of the Oysters & clam  
 Sir George Fordyce has said that all shell  
 fish were improper for the sick as they  
 were indigestible.







But this is not the fact. The shell fish differ as much in their digestibility as the different kind of flesh. But we are off no better food for convalescents than oysters when taken raw or roasted, but they should not eat the part which is attached to the shell, this is a sort of tendinous substance & very difficult of digestion. The oyster liquor is one of the most pleasant and agreeable things that we can give to our patients. Dr. Physick often recommends it among the first things to his patients. He tells his patients to dip a bit of bread in the oyster liquor & eat it constitute one of the most grateful articles that can be given to the sick or rather convalescents. Soft boiled Eggs are next to be preferred for the purpose of Nutrition - but you must always adapt your food to the state of the system. Then comes in Fish, Fowls &c. Pheasants and other poultry become more easy of digestion by keeping except they become putrid. But Geese & Ducks are apt to become rancid if left long & by this they are unfitted for Nutrition. Invalids should observe their usual hours for dining. Salt shad may be used when we want the stimulating without the nourishing effect of diet & the contrary - vice versa.







In Typhoid Pleurisy, Stimulating diet is very important, Milk punch, wine & they &c are all very usefull remedies. Besides the true disease, we often have another mind where depletion is often proper & a bleeding or two may be requisite. Scumy this disease has often been confounded with other eruptive diseases of the skin. But the scumy of which I speak is the genuine kind, with, lassitude, weariness, dejection, anxiety, & oppression - as the disease advances the countenance becomes sallow, & bloated, respiration is hurried by the least exertion, breath offensive, night pain come on, the pulse is small & frequent, the Gums swell, become pumgy and bleed upon the slightest touch, the teeth become loose. Petechia & macula appear in various parts - Spontaneous ulcers take place & the slightest scratches becomes sores, the joints are stiff & swell, the tendons of the legs become rigid - bowels irregular, urine high coloured, with a pellicle of an oily appearance, emaciations, hemorrhages from the nose, ears; excrements of the finger & excretion become fetid, but the appetite is often good & intellectual faculties unimpaired, Death ensues. The skin is often like *Scitis lanserina* & dysentery is apt to ensue, which is mostly mortal. In this disease you know a vegetable diet has been considered a specific.



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



Summer Fruits & Care of the first importance.  
 It has been known & observed that patients either  
 die in 48 hours after beginning to eat raw vegetable  
 matters, or survive the disease. Dr W. Smith  
 Surgeon of an English man of war, says he gave  
 potatoe slices in vinegar with the best effect.  
 Bolane says that the vegetables must be fresh &  
 that fresh lemons are much better than any others.  
 In Dysentery all acresent matter is to be strictly  
 prohibited, animal food is too stimulating. Sago,  
 arrow root, rice, Gum Arabic &c. are the only nu-  
 trimentia for the first stage of Dysentery.  
 When the Inflammatory stage has subsided you  
 may give beef tea, weak soups &c.

Cholera Morbus, There is no disease where diet  
 will do more independent of medicine, than in  
 this. Mucilage of Gum Arabic sugar & Lime  
 water are very good here.

Dyspepsia, In this disease we must give animal  
 food and that which does not undergo fermentation  
 no acresent food of any kind should be allowed.

In Gouty constitutions, cases have occurred, where  
 vegetable have prevented & cured a paroxysm of  
 Gout. A noble duke was imprisoned in France  
 & his gout was cured by it, he came out regenerated  
 in every fibre, vigorous strong like Lazarus from  
 his tomb.







The use of vegetables in preventing, moderating, & curing Epilepsy is worthy attention & Dr. Bullen has made some useful observations, to which I refer you. In consumption vegetable diet prolongs life, in cancer it alleviates pain. But the causes of disease to which it is applicable are too numerous to mention. But we must change our diet. Dr. Rush is to consider heat among the condiments. Hot Teas & aliments are all adapted to different diseases, accordingly we find the cream, cold water &c. all have their uses and have produced death by being taken into the stomach in large doses in warm water —

November 22<sup>d</sup>

In Sickness attention should therefore still more than in health be paid to the proper temperature of the food especially in hemorrhage. Valetudinarians should eat frequently and in small quantities so that the stomach may never be full nor empty. Patients whom we find extremely difficult to induce to take food have sometimes been induced to eat by seeing others eat with avidity. Coffee and Tea — Dr. Percival found coffee to contain a portion of astringency and







and is more considerable so roasted than in the raw state. Coffee probably contains considerable nutriment - it would appear from the experiments of Percival that coffee has a power of preventing fermentation, it appears from the same gentleman that it has the power of relieving the Sick Headache. Its action on the Nervous System is probably derived from the oil it contains. In roasting this becomes in some measure Empyumatic - Coffee assists digestion, strengthens the stomach &c. - In delicate habits, however it sometimes induces watchfulness, tremors, &c. - Coffee says Dr. Pringle is an excellent remedy in moderating a fit of the Asthma - Its good effects after a large dose of Opium, I have experienced in several cases. Tea when weak and mixed with cream & sugar (moderately employed) is a nutritious beverage it is of no value as a medicine -

Of the Materia Medica propria -  
 Teachers of this branch have made frequent complaints of the difficulty of arranging the subject. The proper method is I think to divide it into and describe in succession those Medicines - which most resemble each other in their effects upon the system - The only mode of obtaining true information of the properties of Medicines is







is from experience. Diseases consists not only in an alteration of the mode of action of the different functions of the several organs, but frequently in the degree of action. There are opposite states of disease requiring different classes of medicines —

Stimulants & Sedatives — By the term Stimulant is meant any thing that is capable of exciting the action of the moving fibres — I think the property of exciting sensation is to be included in the definition or the contrary Sedatives are such substance as diminish the motions and powers of the human system. To exemplify the effects of we need only observe the operation of ardent spirits upon the human system — the sedatives would produce contrary effects (whatever changes take place in the body during health and disease are produced by impressions that implies the production of a new action, so that I may conclude all medicines capable of producing an impression are Stimulants — It has been much the custom to consider as a Sedative certain passions of the mind as Fear, and certain impressions on the system as Cold, but their sedative qualities are very doubtful — Fear produces secretion of urine now this is proof of an action excited and proves its cause to be a Stimulant. The effect of great terror also is action, as the secretion



from experience. Diseases account not only in  
 our observation of the muscular system of the different  
 functions of the visceral organs, but frequently in  
 the degree of action. There are opposite states of  
 muscular regarding different classes of measures.  
 - Abnormal and obstinate - By the term  
 abnormal is meant any thing that is capable  
 of exciting the action of the nervous system - I think  
 the property of exciting contraction is to be considered  
 in the definition. But the contrary is also true  
 as such substances as stimulate the motor and  
 power of the human system. To excite the  
 effect of the nerve only, observe the operation of  
 direct stimuli upon the human system. The  
 substances which produce contrary effects, but  
 even changes take place in the body during health  
 and disease and produce by comparison the influence  
 the characteristic of action is to be observed in  
 these all are the necessary result of the change in the  
 position and the elements. It has been said the  
 system to consider as a distinct system of action  
 of the various organs, and certain conditions of  
 the system as a whole, but these are not a condition  
 of the system itself. These conditions are a condition of  
 the system and a part of the action of the system.  
 It is to be considered as a condition of the system.



of tears, and the action of the Intercostal muscles  
 Cold produces abstraction of heat, contraction of the  
 skin, in shivering &c — The question of the  
 Stimulative effects of cold is of much importance —  
 at a temperature of  $62^{\circ}$  the body has but little  
 sensation of heat or cold, but any deviation from  
 this temperature produces a sensation — contrac-  
 tion of the skin, a stoppage of perspiration are pro-  
 duced by a diminution of it — as also rigors & shivering.  
 The frequency of the pulse is diminished, but sometimes  
 the contrary is the case, death ensues local or gen-  
 eral according to circumstances. In renewing these  
 phenomena we shall perceive stimulating effects —  
 The paleness of the skin is derived from muscular  
 contraction either in the skin or vessels, shivering  
 is produced whether we immerse the feet in hot  
 or cold water — I once held in my hand a frozen  
 portion of quicksilver and it produced the sensa-  
 tion of a burning coal — These effects it is true  
 have been accounted for on the supposition of  
 their being indirect stimulating effects, but this  
 is not true — Dr. Bullen considers cold as a  
 stimulant or sedative under the different in-  
 which it is applied. If any other arguments were  
 necessary to make out our Theory — I would bring  
 forward the effects of cold in asphyxia — in



of the body and the action of the internal muscles  
 to produce contraction of the contractile fibres  
 and in shortening of the distance of the  
 contraction effect of cold is of much importance  
 at a temperature of 60° the body has but little  
 resistance of heat in itself but any contraction from  
 the temperature produces a contraction - contraction  
 of the skin and the contraction of the internal muscles are also  
 caused by a contraction of the - as also by a contraction of the  
 the frequency of the pulse is diminished but not  
 the rate of the pulse is not much altered or even  
 and according to circumstances. In removing these  
 phenomena we shall perceive stimulating effect  
 the history of the skin is a disease from which  
 contraction arises in the skin is called the skin  
 is produced whether we remove the feet or not  
 or cold water - I have led on my hand a finger  
 further of quickness and it produced the same  
 kind of a humming effect. The effect of a true  
 has been accounted for on the supposition of  
 their being direct stimulating effect. But this  
 is not true - Dr. Haller however has an  
 explanation of a vascular matter the different in  
 which it is applied of any other argument even  
 necessary to make out our theory. I must leave  
 forward the effects of cold in the body.



in producing contractions of the scrotum, in curing hemorrhagy &c. Cold diminishes the pulse in frequency so do other Stimulants as brandy - I have known it made slower by this article and Dr. Kuhn has witnessed the same effect - Cold may then be considered as capable of producing real stimulant effects - this is all I wished to prove - There is no such article we may conclude from the foregoing, as a direct sedative - Every deviation from the natural state of the body is productive of a stimulative effect - It is very often important that no misconception should exist on this subject, there is no doubt indirect sedatives thus Sulph. Soda<sup>e</sup> by their stimulating effects increase the mucous secretion - the discharge of which debilitates the body more than once in passing the bougie in the urethra (which is certainly very irritating) I have seen Syncope produced. I have also seen the same effect produced where a much greater stimulus has been applied: viz: in the injecting of the Tunica vaginalis with wine - certain it is also well known produces fainting - I would wish to be understood to express the term Stimulant, those articles which excite the body to action and in this sense I shall employ it in preference to the term Narcotic made use of by Mr. Murray. It is evident that articles possessed of the most stimulating qualities, have also other properties thus opium under certain circumstances is highly stimulating & under others Narcotic -



in passing contrast of the ventricle, in coming  
 hemisphericity etc. but diminishes the bulk in fact  
 primary is an other stimulant as known - those  
 known it makes known by the action and the action  
 has initiated the same effect. But may then be  
 considered as capable of producing real stimulant  
 effect this is all I write to know. - The same  
 about many examples from the foregoing  
 a direct relation - Every deviation from the natural  
 state of the body is productive of a stimulative effect -  
 It is very often important that no minor deviation should  
 exist in this subject, there is no doubt indirect relation  
 then established by their stimulating effect on the  
 the nervous system. The discharge of which will  
 alter the body more than once in passing the body  
 in the direction which is certainly very interesting. Those  
 been explained previously. Those who see the same effect  
 produced in the nervous system greater stimulus has been  
 applied. But in the rigidity of the nervous system  
 with the same - but an observation is also well known  
 produced fainting - I would wish to be understood  
 to express the term stimulant those actions which  
 create the body to action and in the same shall  
 supply it in reference to the term stimulant - those  
 of the body. I think it is correct that such a description  
 most stimulating action has also other parts of the system  
 in the same circumstances is highly stimulating action  
 in the system -



## Of the Modus operandi of Medicines

Having in another Lecture expressed my opinion with respect to life and having discussed above the subject of Stimulants it is now proper to consider the manner in which the latter effect changes in the human body. From the earliest periods of Medicine this has been a subject of great enquiry, if the Question were merely one of Curiosity it would be worth the investigation but it is doubtless most important in the practice of Medicine. Anatomy, Physiology & Chemistry, are of importance to aid us in the enquiry, but all combined cannot solve the difficulty; the only theories which have been advanced on this subject worthy of discussion are those which are now in vogue there are Two — 1<sup>st</sup> The Humoral & 2<sup>d</sup> That which conceives medicines act only on the Stomach. There are many Medicines, which no doubt act by producing an impression on the stomach without being taken into the circulation as wine & opium which act too suddenly to suppose they act through the blood vessels, they act by sympathy; when persons heated by exercise and drink cold water they are "destroyed" by the effects of the cold being conveyed by Sympathy to the system — Thousands of other experiments prove that substances by producing an action on one particular part can have their action communicated to the rest. — The next question is whether there be any body capable of being absorbed







into the body. This is doubtfull whatever is exposed to the action of the digestive apparatus it only produces chyle. There is no doubt however, that certain changes may be produced in the animal fluid & by the food — The wild ducks flesh is always fishy from its aliment and the colour of madder on which young animals have been fed can be detected in the Bones by the late experiments made by Bostock it appears that the Blood and urine of persons who have been taking Soda for any length of time have been found to contain traces of that substance. Nitre has also been detected in the urine. The Theory which supposes that though these substances have been destroyed by digestion but that their elements have again recombined is perfectly visionary. The fact above recited I admit, but there are others which I cannot, as mercury being found in the bones — lead in the spittle and the Chilo system being acted upon by medicines taken by the nurse. The ground I maintain is this, that we cannot at will, introduce active medicines into the blood — vessels but that changes are produced sometimes in the blood by certain articles I maintain that most medicines act primarily on the Stomach and by Sympathy on the residue of the system. Mercury when administered produces a general fever and a local inflammation of the salivary glands which is not explained by supposing the article to be absorbed — it excites the Stomach or skin but how we know not. If the mercury be taken into the vessels the effects should be







if it be said that it can only excite certain glands I ask how can it excite these except by sympathy, this must still be called in to explain the circumstance whether Mercury act upon the stomach or upon the arteries and then pass from those to which, it is applied take on action however near or remote such part may be sympathy still acting. Whether the medicines act by the circulation therefore is of no consequence because their operation is still doubtful at this we are not to be surprised for I will undertake to explain the action of every medicine so soon as any other point in Physiology is established. Some writers explain the operation of medicines by supposing them to be all Stimulants. The Stimulus of each variety being determined to particular organs. I now proceed to mention the order in which I intend to treat of the Materia Medica —

I shall 1<sup>st</sup>. divide them into 2 classes the 1<sup>st</sup> Evacuants; at the head of which I place Bloodletting — Then all those medicines that excite secretion from the different organs — as

Emetics

Cathartics

Diaphoretics

Diuretics

Emenagogues

Sialagogues

Anthelmintics and

Emispartics —

Class 2<sup>d</sup>. Stimulants, or Excitants — Narcotics, Tonics  
Astringents & Antispasmodics —

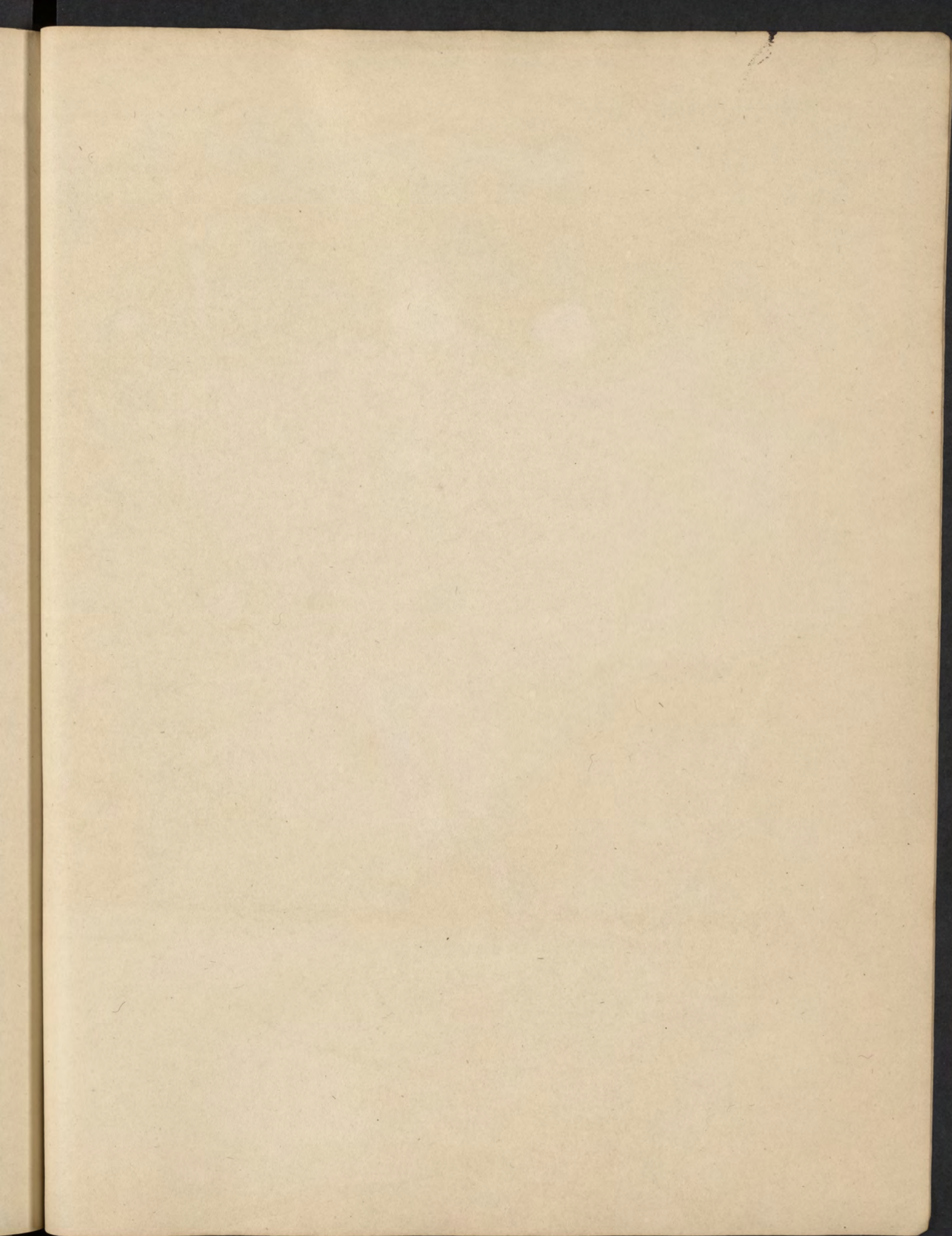


It is true that it can only be said  
 that we have it except in the  
 must still be called in to explain the  
 whether the reason out upon the  
 the action and the point from those which  
 appear to take on action however as a result and  
 best may be explained by this action. Whether the  
 act by the combination therefore of an action and  
 cause their operation is still doubtful at this  
 one not to be. Unsurprisingly for I will not take to explain  
 the action of every person as an action and  
 physiology is established. Some writers call the  
 train of the nervous system to be established  
 a stimulus of each variety being referred to  
 organs. Some writers to mention the name in which  
 action to that of the nervous system  
 I shall not give them into a list of the  
 the 2000000000. At the least of the 2000000000  
 then all the nervous system that exists in the  
 different organs - in the

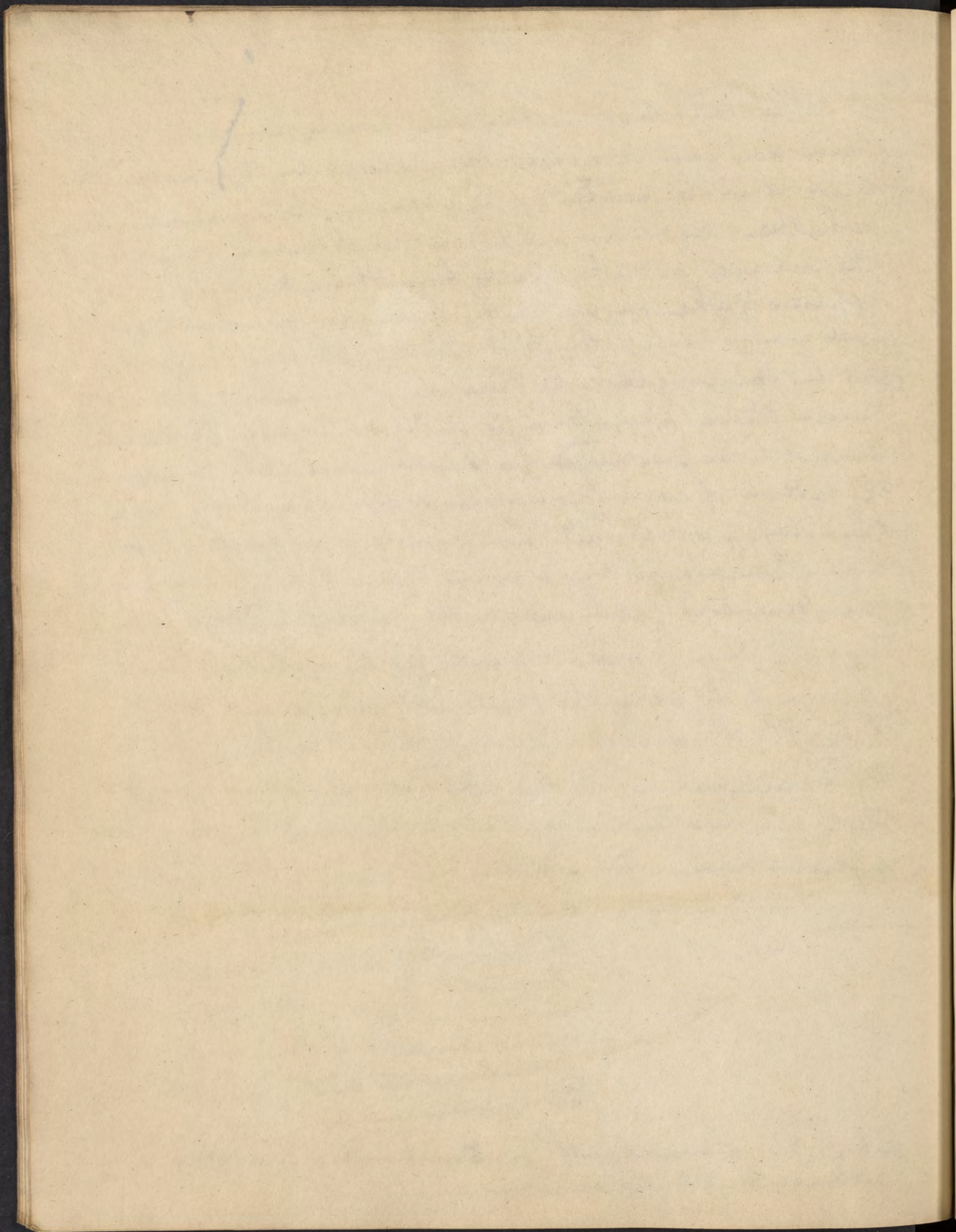
Cerebrum  
 Cerebellum  
 Medulla  
 Pons  
 Medulla oblongata  
 Spinal Cord  
 Nerves

Class of Stimulus or Excitant  
 Antagonists & Antagonism

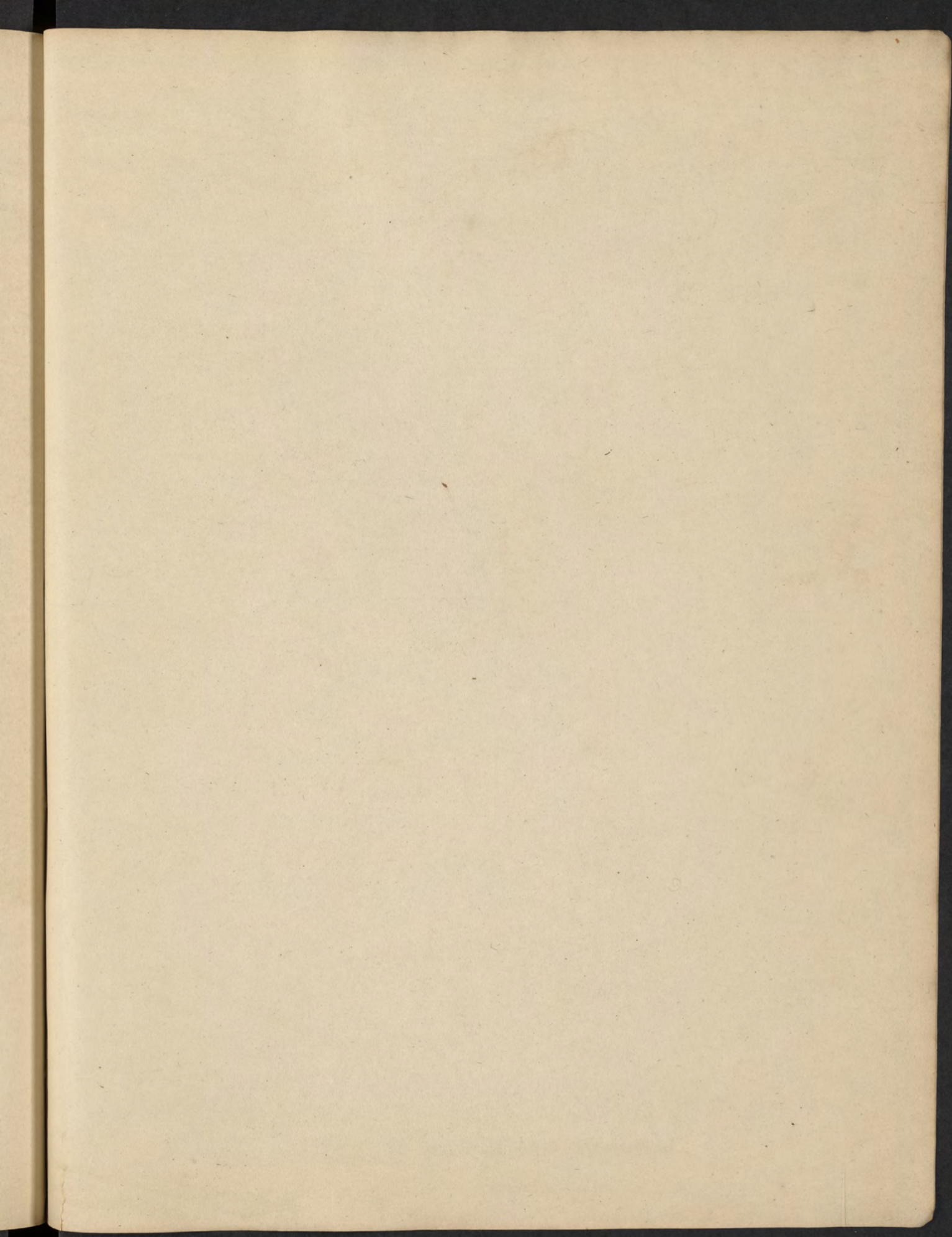




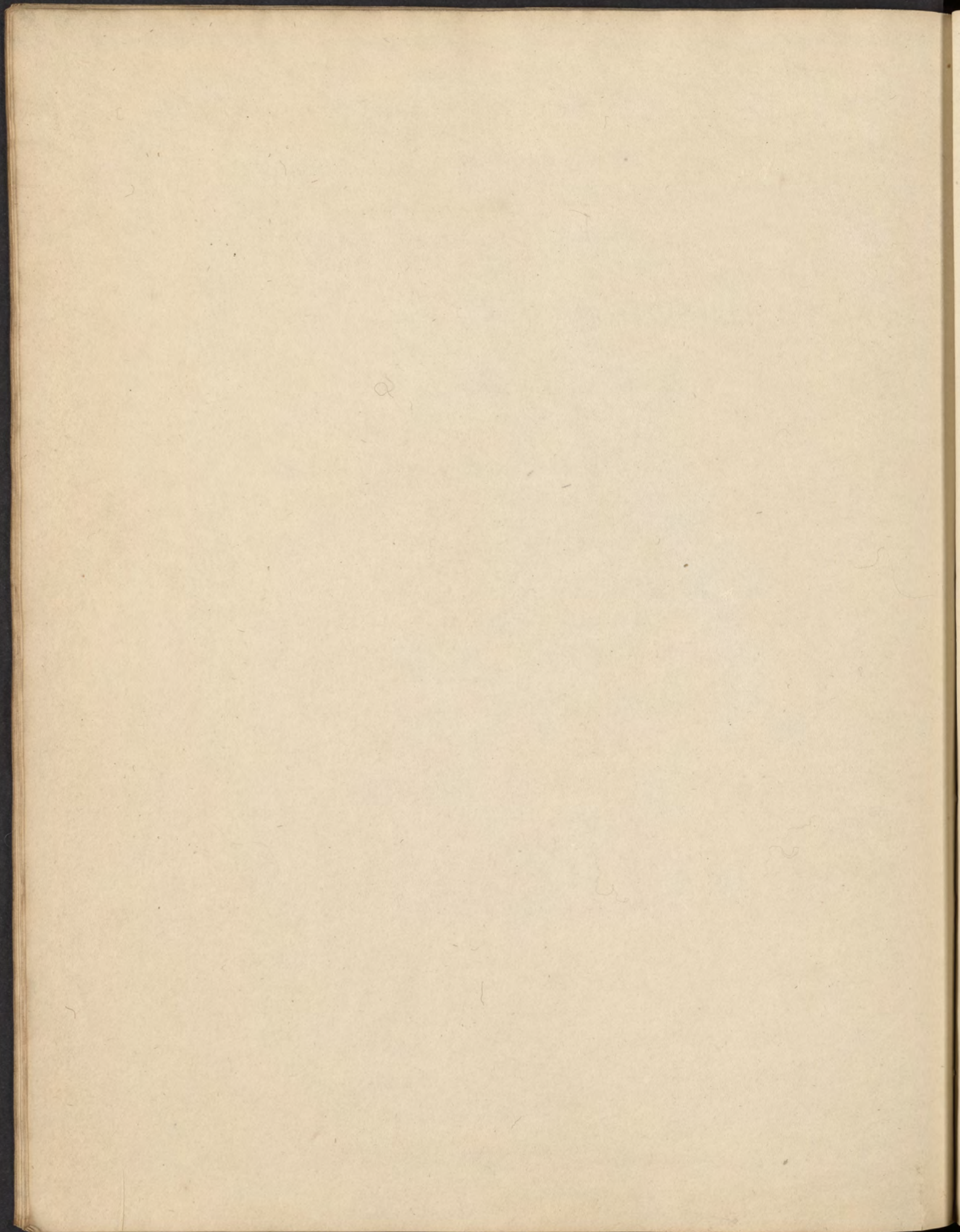




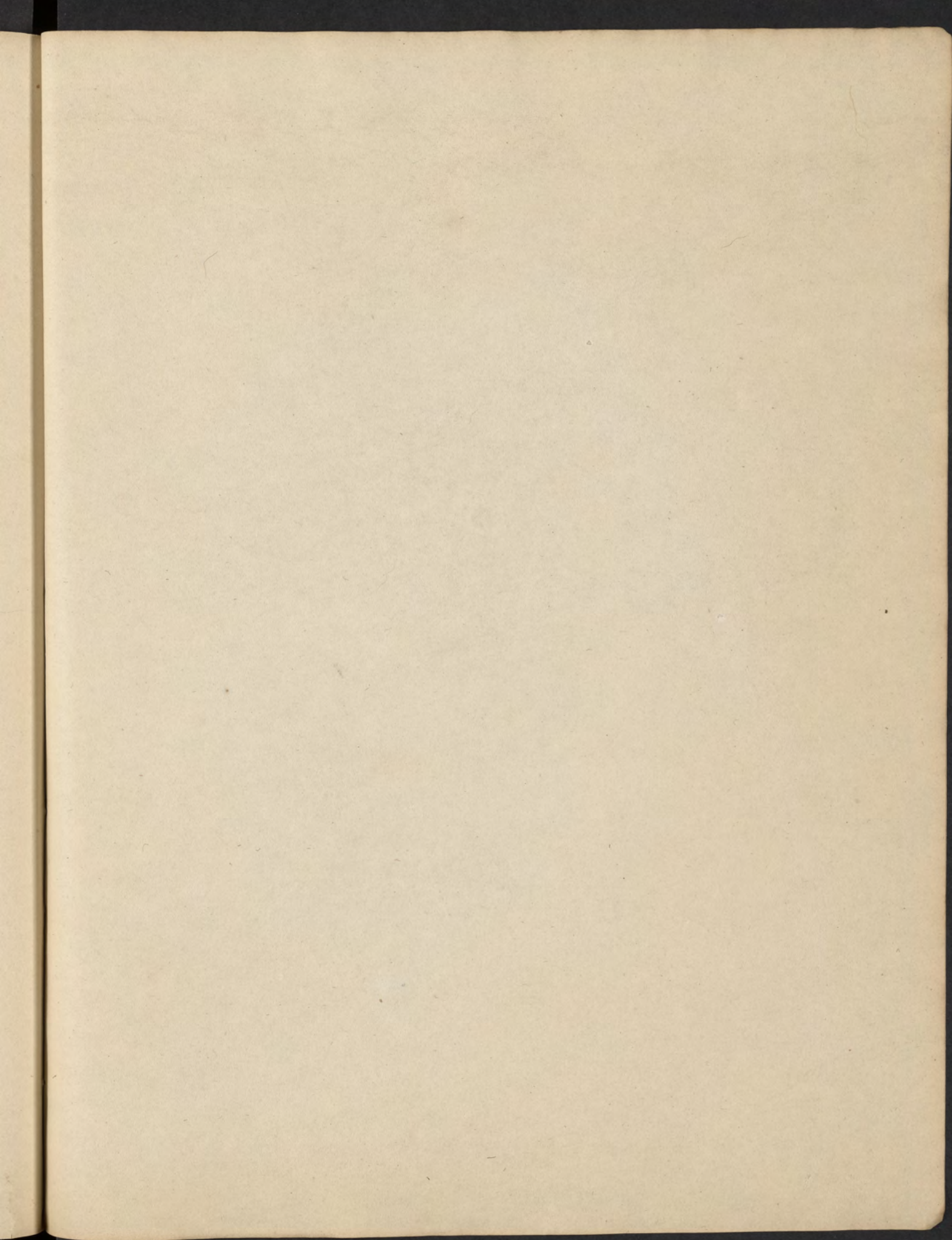




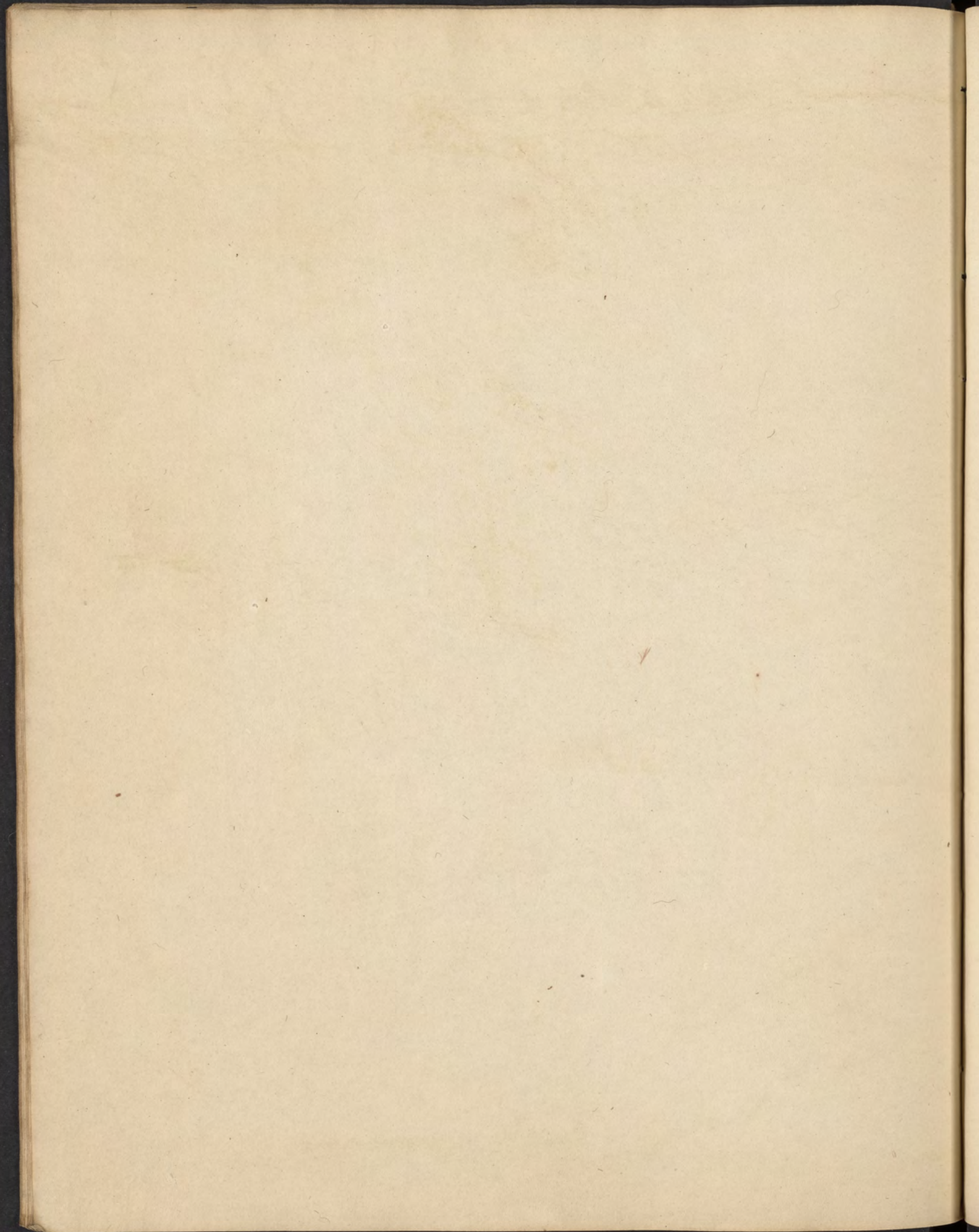




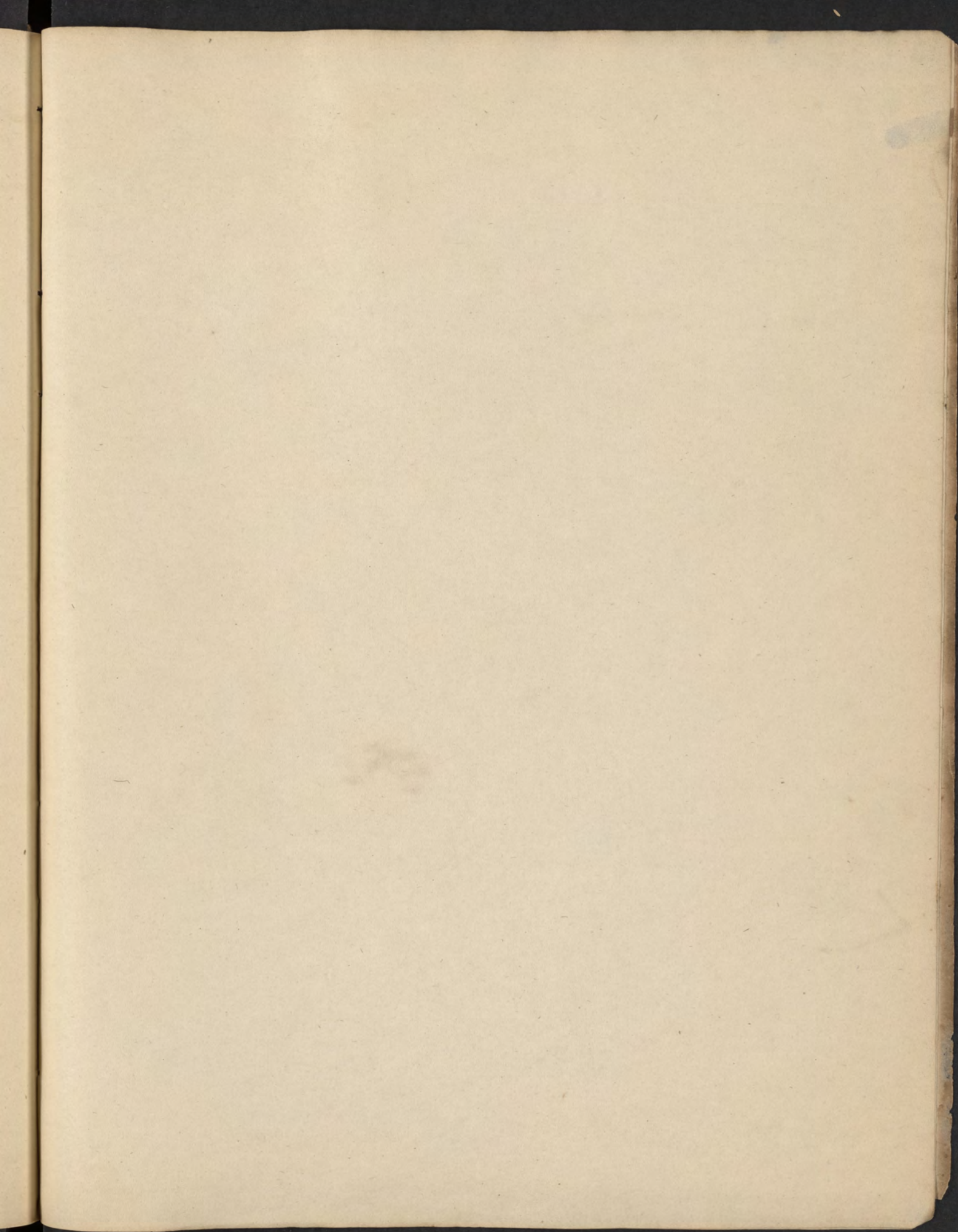




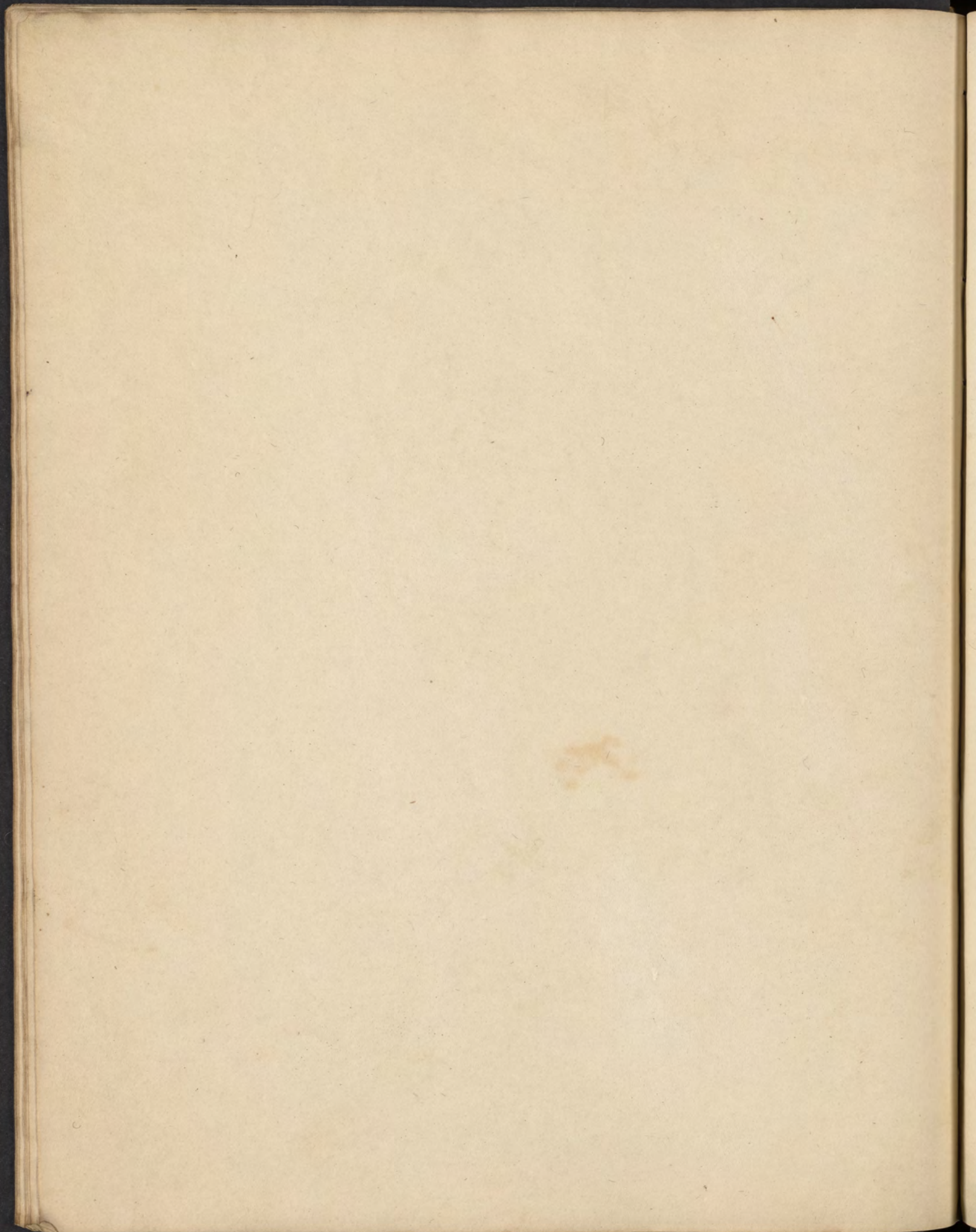








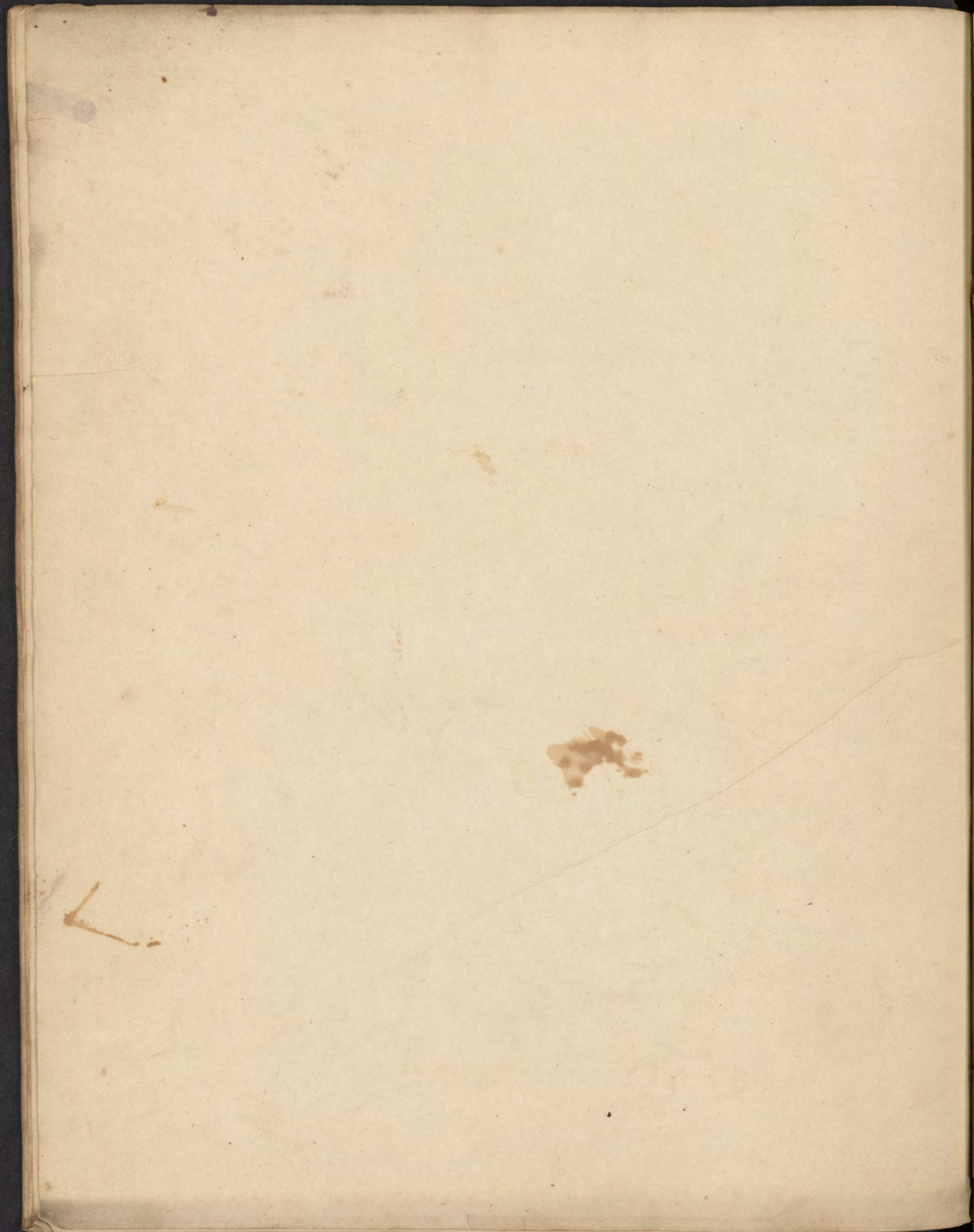














## Of Bloodletting.

The most direct and powerfull evacuation we possess should consider it an unwarrantable omission if I passed over it in silence. It is a convenient remedy and during the fluctuation of medical theories it has always been considered a most powerfull agent in the hands of the Practitioner, Botellus who was as you well know the famous sanguinist wrote a Treatise on this subject recommending it in all diseases while others have erred in the opposite extremes. Louis 13<sup>th</sup> of France during the last 40 months of his life was bled 117 times, purged 213 and glystered 230 times. It is a natural remedy since as Dr. Rush said nature frequently performs it. By habit bloodletting loses its efficacy and by habit the use of it is made necessary, after injury of the head it is important to bleed very largely in order to prevent an extravasation & inflammation of the brain, when some customary evacuation has been suppressed, it often becomes necessary. In this Country there is a prejudice against bleeding old and very young subjects yet experience proves it to be quite as necessary and important in these cases as in any.

In Switzerland old people are frequently and







regularly bleed and the health they enjoy is a proof  
of its utility. In fever it is indispensable and its  
most prominent effect is to reduce the inordinate ac-  
tion of the heart and arteries and in other words  
to subdue the violence of the symptoms. The extent  
to which it may be carried in cases of disease is  
wonderfull. In cases of Apoplexy Dr. Physick took  
90 $\frac{3}{4}$  at a single bleeding. In injuries of the head Thase  
bled 5 times a day, nearly to as great an extent with  
Mr. Blane who in a similar case to 320 $\frac{3}{4}$  of blood  
in 20 days. Mr. Blane who was always very diffident  
in bleeding copiously, but in this case he has been  
the reverse. Haller relates a case where 22 lbs of blood  
were lost at once. This would be incredible were it  
not for the gradual loss giving time for a new  
supply where. *vs.* is much used the cruen of the blood  
or crasamentum is proportionally much less. During  
the yellow fever Dr. Rush & Physick were accused  
of bleeding untill the blood no longer stained  
their linen. This although not exactly true will  
show you the effects of the evacuation. It produces  
a diminution of morbid or diseased action and in  
remittent fever should be employed when the  
action is most violent I have repeatedly cured  
intermittents by *vs.* & blisters, after Tonics had failed.







In continued fever vs may be used at all times Dr Cullen by condemning it in Synochus & Typhus has misled thousands who have from the fear of debility have deprived their Patients of this necessary and important remedy. In acute diseases I never would refuse to bleed, for fear of Debility, because in fever VS. is certainly the most powerfull tonic we possess. If the system is weak after the evacuation it would have been weaker without it. In this country Dr Cullen's directions have been productive of vast deal of mischief for his practice applied to some of our diseases is productive of the most pernicious consequences.

### Lecture 10<sup>th</sup> Nov<sup>r</sup>, 1816

In 1793 and for several successive years our City was visited by a most fatal Epidemic. The disease which occurred is probably familiar to you all. It is not my intention to disturb their ashes willingly by they should be signed to silent and quietness. At this period it was my fortune to study and to enquire the Elements of Medicine and to receive impressions which shall never be forgotten. That will which from its importance







has justly been denominated the Golden  
 was at this time most strangely imbibed  
 and Physicians were taught the importance of  
 adapting their remedies to the state of the  
 system. For this disease (yellow fever) must  
 be employed boldly and repeated according to  
 the violence of the symptoms. On the third  
 day the pulse was frequent, tense full or  
 depressed and required the use of the lancet  
 In all these cases. V.S. must be repeated as  
 long as the pulse rises from febrile action,  
 repeated untill the violence of the symptoms  
 subside. Dr. Rush that as when not carried  
 to the requisite extent was prejudicial, I write  
 now state to you some cases in which blood-  
 letting is improper. It is so when the leading  
 symptoms are debility, as in Typhoid pleurisy,  
 typhus &c but in the former disease if the  
 Inflammatory action demand bloodletting I  
 would as leave perform the operation in  
 as in any other case demanding blood-  
 letting. The late epidemic was said to be  
 an instance of this kind.







The cases which fell under my own observations were ushered in with Inflammatory symptoms & here I unhesitatingly resort to the lancet & refrain from V.S. because debility was to ensue was a most ridiculous practice which deserves nothing but continual reproach. There was however in this disease a deceptive pulse, easily compressed and unlike the usual inflammatory pulse of pleuritic patients. Doctor Rush forbids V.S. when the vessels are gorged with blood in these cases the pulse is feeble and says the loss of the top of a finger of blood would prove fatal. By friction and mild stimulants the pulse is excited. After they are used blood may be taken with advantage. These remarks on the engorged system are valuable but I do not think the theory is correct. Stagnation in the blood vessels has never been demonstrated and should it take place, gangrene would be the inevitable result. This however furnishes no objection to the practice of Dr. Rush which experience has confirmed as most useful. 3<sup>d</sup>. It is improper in the conclusion or advanced stages of Inflammatory diseases. I am sorry that







That Dr. Rush should say it is improper to resort  
 to it for malignant fever, if not called before the third  
 day — What if pulse with a tense and active pulse  
 because three days have elapsed. In many cases the  
 the pulse requires the use of the remedy even when  
 many days had elapsed. Bleed therefore gentlemen  
 in every stage of the inflammatory fever where the  
 symptoms demand it. The idea that we are  
 to refrain from us. because debility is expected  
 or three days have elapsed should be opposed.  
 As a general rule it may not however be necessary  
 in the advanced stages of the disease. 4<sup>th</sup> In the  
 concluding stage of the paroxysms of intermittents  
 or remittents us is improper. 5 In accidents though  
 us. is generally indicated yet in gun shot or pump-  
 fired wounds in hot weather it may not be  
 safe in these cases, this you will learn from  
 the professor of Surgery the importance of a proper  
 position. 6<sup>th</sup> In the same diseases & accidents which  
 in temperate persons require bloodletting when they  
 occur to intemperate persons we are under the  
 necessity of using liberal stimulating remedies  
 as in mania apople. In the Albin house & Hospital  
 you seen cases of this kind. 7<sup>th</sup> After suppuration



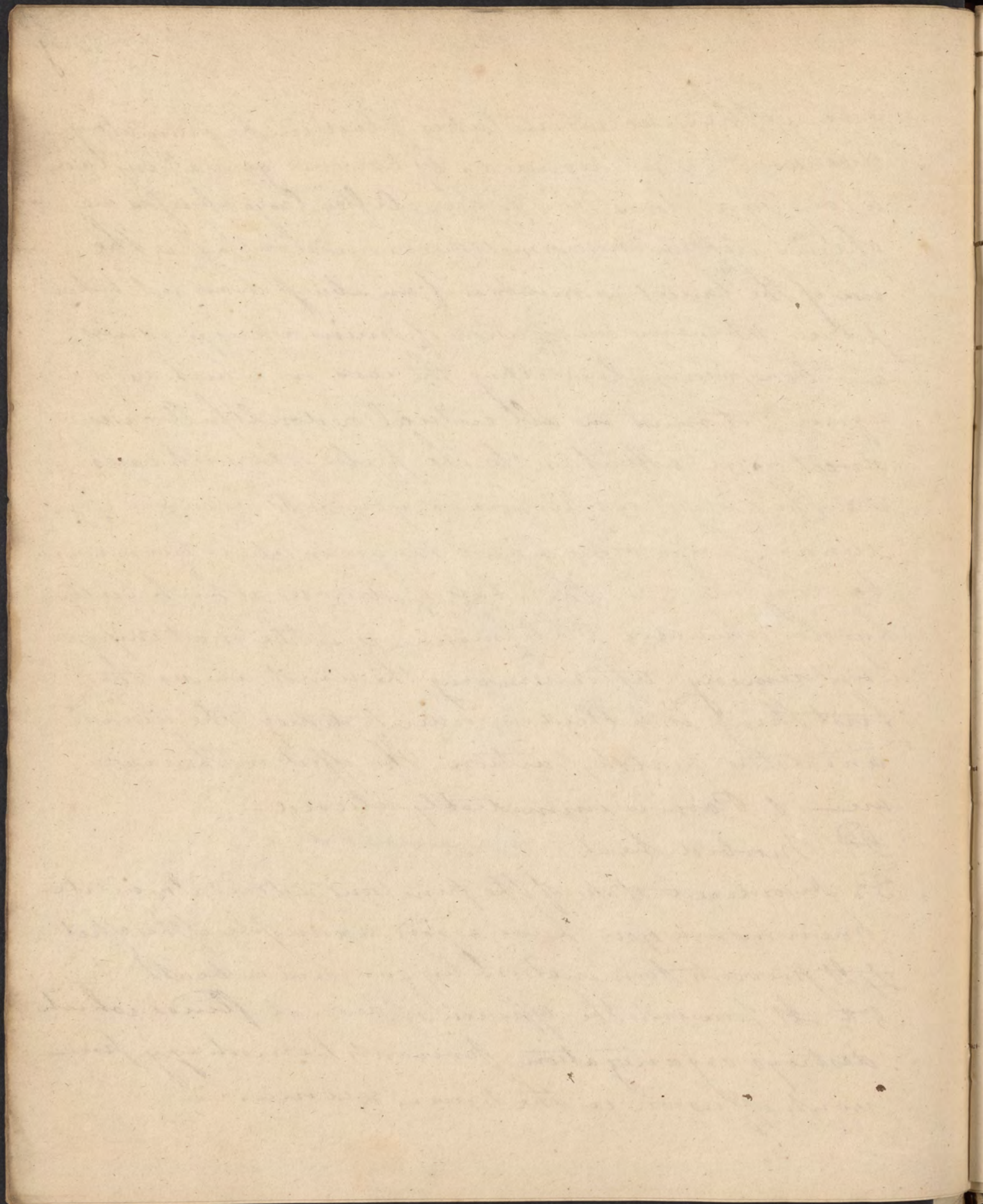
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every other secretion takes place in Inflammatory diseases *res.* is not required. If however general inflammatory symptoms *res.* is proper. After large abscesses are opened inflammation sometimes ensues it calls for the use of the lancet as much as if an abscess had not taken place. Whenever an effusion of serum or pus produces reaction, bleed. In deciding the cases in which *res.* is required it must in all critical or doubtful cases direct your attention to the pulse. In such cases see the operations performed judiciously because you cannot judge before hand the quantity which will be necessary. In the class of diseases which Cullen has denominated Phlegmasiae, *res.* is the most important remedy. After removing the remote causes the first thing is to bleed in order to destroy the diseased and restore healthy action. The effects in these cases are —

- 1 Pain is immediately relieved —
- 2<sup>d</sup> Morbid heat is diminished
- 3<sup>d</sup> Disordered states of the functions restored. In acute pneumonia you have a good example of this effect
- 4<sup>th</sup> It prevents termination by gangrene or death.
- 5<sup>th</sup> It prevents the effusion of several fluids which destroys organization. Prevents hemorrhage prevents effusion in the Brain &c. &c. —





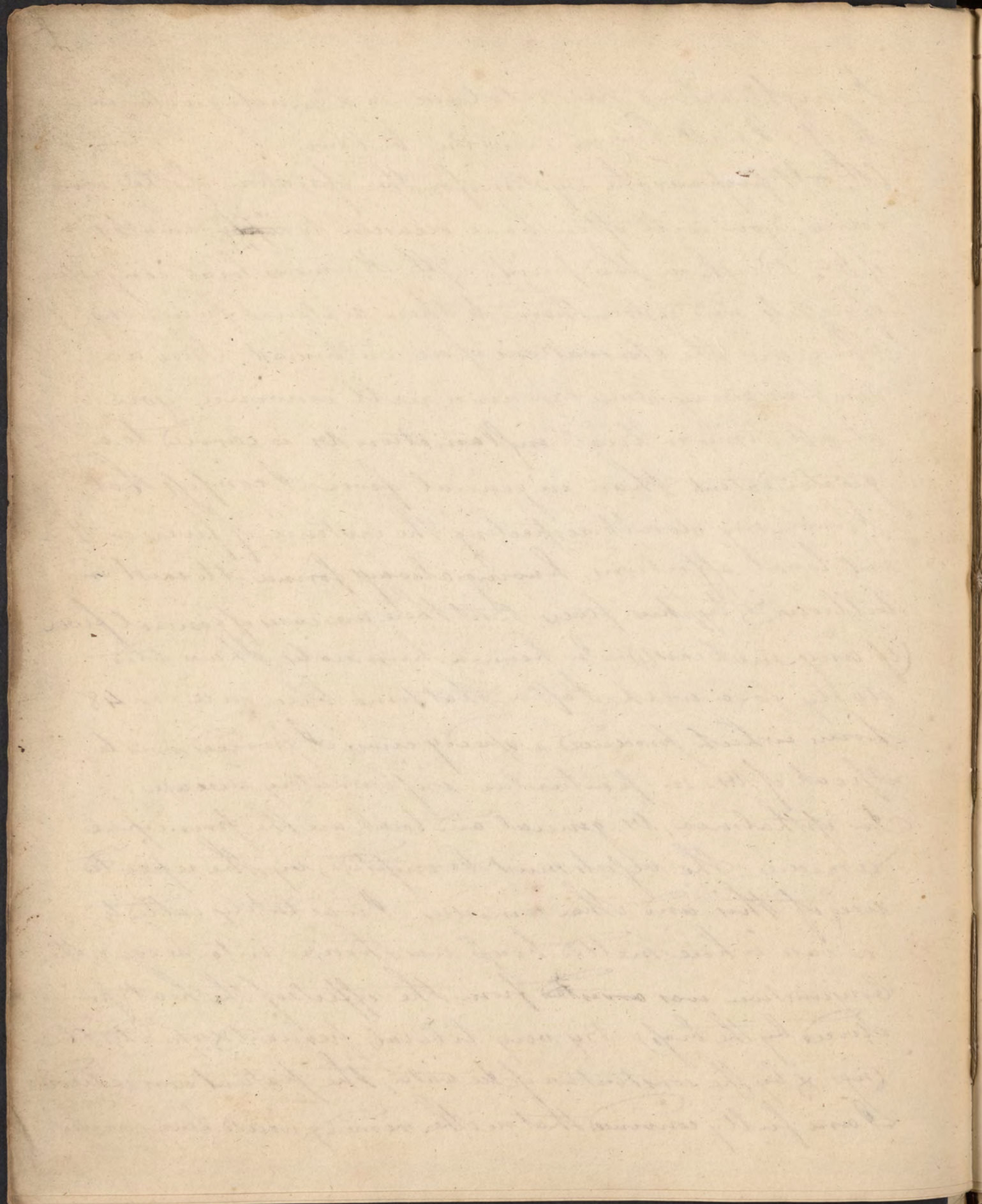


I might extend this catalogue to a much greater extent. I will however mention but two.

6<sup>th</sup>. It prepares the system for the operation of other remedies, you will often have occasion to <sup>verify</sup> ~~repeat~~ remarks of Dr. Rush on this point. 7<sup>th</sup>. It removes local congestion of vessels and restore them to their natural functions. These are the observations of an enthusiast. They are such as every days experience will convince you at all times in local inflammation *vs.* is carried to a greater extent than in general fever I confess that I have my doubts respecting the existence of fever without local affections, having always found it to exist in billious & typhus fever. But there are cases of general fever (if any such exists) In hernia humoralis, I have bled daily for a week. After that time bled once in 48 hours which produced a speedy cure. I proceed now to speak of *vs.* in particular inflammatory diseases.

In ophthalmia, *vs.* general and local are the principal remedies. The vessels must be emptied, by the repeated use of this and other remedies. I was lately called to a case where melted brass was thrown into the eye & the conjunctiva was arrested from the effects of the heat produced by the brass. By very liberal, frequent & repeated bleedings & by the constant use of the water, the patient was relieved. I am fully convinced that no other remedy would have succeeded.







5  
 I Bled as freely as if it had been Billious fever, and with  
 as much advantage. We are directed to seize diseases like  
 time by the fire lock to take them in the forming state  
 in no cases this rule more proper than in inflammation  
 of the eyes. By a case in the Elements of surgery you will  
 see how frequently we may be obliged to repeat this remedy.  
 Bled as long as inflammation continues and when general  
 it is no longer safe resort to local remedies.

Phrenitis, Large and repeated bleedings are here necessary.  
 Cullen recommended opening the carotid artery or  
 Jugular vein but this is very inconvenient of performing  
 this operation the only precaution which is necessary  
 that you employ the remedy to a sufficient extent.  
 In mania I am fully persuaded of the superiority  
 of the treatment introduced by Dr. Rush, & Cullen  
 rather consents to bloodletting, Rush enforces its importance  
 & the records of that Institution where his practice was adopted  
 prove incontestably its value; Here from 20 to 40  $\frac{1}{2}$  are  
 to be taken untill fainting ensues. Dr. Rush recom-  
 mends to perform the operation while the patient is in  
 an erect posture. If he would be kept in this posture  
 there would be some reason in the remark but  
 I should prefer the situation in which he is to remain  
 because in that case more blood may be taken without



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inducing syncope. The remedy is to be used as long as ~~syncope~~ the symptoms indicate its employment. In mania a potius, patients will not bear the use of depleting remedies. I have used leeches & cupping with odorous substance as musk &c. Emetics were lately introduced in these cases by Dr. Klapp in the Ulms house. I shall speak of them when I speak of Emetics

## Lecture 11<sup>th</sup> Nov<sup>r</sup> 26<sup>th</sup> 1816

Sometimes after an abrupt intense febrile action ensues in consequence as Mr. Hunter supposed of the imperfection of the cavity, according to others has the admission of air. I believe that both of those causes have considerable agency in the productiveness of inflammations. I mentioned that one advantage from vs. is to prevent disorganization from the secretion or effusion of coagulable lymph or pus. This direction is particularly important in diseases of the eyes where disorganization is irreparable. I go on to speak of vs. in other diseases. In all inflammations of the throat & fauces it is useful in cynanche Tonsillaris it prevents suppuration & abscess if employed early. In cynanche maligna the lancet is occasionally required but as a general rule it is not indicated in this disease. In cynanche trachealis it is of immense importance & should never be neglected even in any young subject.







In a child less than one month old if it is found difficult to or 15 leeches applied to the throat, first dipping them in warm water as they will do no injury by cold. *Dynanthe Parotidea*, &c. is indicated and the neglect of it has led to the swelling of the testicle of *hernia humoralis*. All the *Phlegmata pneumonia* is said to require the most liberal use of the lancet. Dr. Bullen's direction on this point is extremely valuable and to him I refer you, I have bled 5 times in one day in *Pleurisy*. The disease in this <sup>country</sup> requires the more free use of the lancet than in Europe, frequently at the first bleeding your Patients will not bear the loss of more than  $VIII \frac{1}{2}$  of blood without fainting, yet if you again apply the ligature in 2 hours he will bear the loss of  $XV \frac{1}{2}$ . You must be guided by the state of the system. You will find &c. more useful in the first day, yet be not deterred from it altogether for 4 days have elapsed nay though a fortnight has passed without using the remedy, as for quantity no general rule can be given  $26 \frac{1}{2}$  being a full bleeding more are considered large, less than  $12 \frac{1}{2}$  is a small bleeding. Five pounds is generally as much as the Patient can bear to lose. The first four days, after which if pain become the urgent symptom use leeches



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or cupping, but if you wish to relieve difficulty of breathing open the vein in the arm. Study Dr. Cullen's directions in this disease; This practice is judicious. In other inflammatory diseases of the chest, not even excepting pulmonary consumption with muscular debility blood letting is proper in the latter however we apply leeches or cupping to the back.

Hepatitis, &c. is here the most important evacuant we possess. Even in odontalgia Dr. Rush recommends &c. Mr. Woodson our most respectable dentist advises leeches in tumefaction of the Gums.

Gout. Under certain circumstances, &c. is the most important remedy in many cases excruciating pain is relieved when balsams & opiates have been tried in vain. Dr. Rush done more service to the profession by enumerating the benefits arising from &c. in this disease. Eruptive diseases, Here it is useful for me to particularize, the cases in which it is proper. It is <sup>in</sup> almost all of them proper and you never should refrain from it by fear of debility for the disease is more debilitating than the evacuation. In these diseases &c. has only the power of diminishing morbid action, not of changing it. — Hemorrhagy which is accompanied with febrile action is to be cured by &c. —



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It might be supposed that hemorrhagy would cure itself. but nature in such cases does not manage it judiciously. If hemorrhagy is produced by local affections which is cured by  $\text{Ves.}$  we are to employ it. In Epistaxis it is often important. I am ~~an~~ advocate for  $\text{Ves.}$  in every case as it is apt to produce a frequent recurrence of the disease. Hence other evacuations are to be preferred. Hemoptysis, here  $\text{Ves.}$  must be employed so as to keep the action of the action of the heart and arteries below the healthy standard. During the discharge common salt, sugar of Lead and other remedies are to be employed and the patient is to be kept ~~up~~ <sup>in</sup> bed in a cool room. Hemorrhoids local bleeding is necessary I generally make 6 or 8 small punctures with the lancet in preference to leeches. They should be made rapidly, so as to allow the discharge of blood. Hemorrhagia  $\text{Ves.}$  is important. This is usually accompanied with febrile symptoms and we are to judge of the propriety of  $\text{Ves.}$  by the state of the system. Hematemesis, In this case the pulse is not a good test of the utility of  $\text{Ves.}$  for the pulse is diminished in force and fullness owing to the powerful sympathy which the stomach has with the heart and arteries, although we are not to be determined from the state of the pulse we must bleed unless the discharge is so great that we are







obliged to support the patient's strength.  
 Epoplexy, ~~then~~ bloodletting is the remedy. The voluntary  
 motions are destroyed while the action of the heart  
 & arteries continue it is essential to evacuate largely &  
 rapidly therefore I prefer bleeding my patients in an  
 erect position. I sometimes open both arms. every thing  
 retarding the motion of the blood from the head should  
 be removed. In Palsy the cure is to be conducted on  
 the same general principles always attending to the state  
 of the system.

## Lecture 12<sup>th</sup> Nov. 28<sup>th</sup> 1816

In many the spasms of Dr. Cullen's  
 is an important remedy, It however ought never  
 to be used in Tetanus, I state this with confidence  
 having seen it employed in several cases and  
 always with decided <sup>ill</sup> effects. In every case when  
 I have seen it employed the patient has died.  
 In hot weather and in hot climates this disease  
 frequently results from wounds and on this account  
 it in these cases is to be used cautiously. It is  
 generally safe after wounds in hot weather. It  
 is generally safe after ~~wounds in hot weather~~ to bleed  
 as long as there is febrile action but I have <sup>seen</sup> ~~one~~ one case







in which Tetanus & Death were the consequences.  
 In a violent fit hysteria I have known two quarts of  
 blood taken away which produced an immediate res-  
 toration of the convulsions. In Epilepsy it is sometimes  
 usefull but the remote causes are so various that  
 we can give no particular matter of cure.

Chorea, with Sydenham & Rush Dr. was my  
 favourite remedy, though Cullen feared evacuations,  
 when we come to purgatives, I shall tell you that it  
 bears evacuation, and is treated successfully by the use  
 of purgatives; I have two general rules to give you relative  
 to the use of this remedy; Bleed in all cases of difficult  
 respiration and for the relief of pain. — Bleed when the  
 pulse indicates it. — In Cholera, V.S. is to be employed,  
 it relieves pain, and prepares the system for other  
 remedies. — In bowell complaints the pulse seldom  
 indicates, V.S. and here it is to be employed in proportion  
 to pain and the violence of the other symptoms. —  
 I have said enough respecting this remedy to show  
 you its importance, and give you some general  
 principles to guide you in the use of it. Remember  
 it is the most powerful evacuant we possess.  
 Having urged you to employ it in so bold a manner,  
 I wish you also to remember that in using it,







The better part of valour is discretion. — If you follow the principles I have given you, you need not fear carrying the remedy too far. — I know the remedy has been abused, and that in the hands of some ignorant men it has been injurious. — But I also know many to have been cured by it of violent malignant fever, and impete to it then clear, or its lingering effects. —

Of the use of V.S. in Surgery, you will have some remarks from the Professor of that chair; and also the manner of performing the operation. — Much has been said respecting the proper place of opening veins. — Those of the arm are most convenient, and serve every purpose with opening the jugular vein, or carotid arteries. — The latter operation ought never to be performed. —

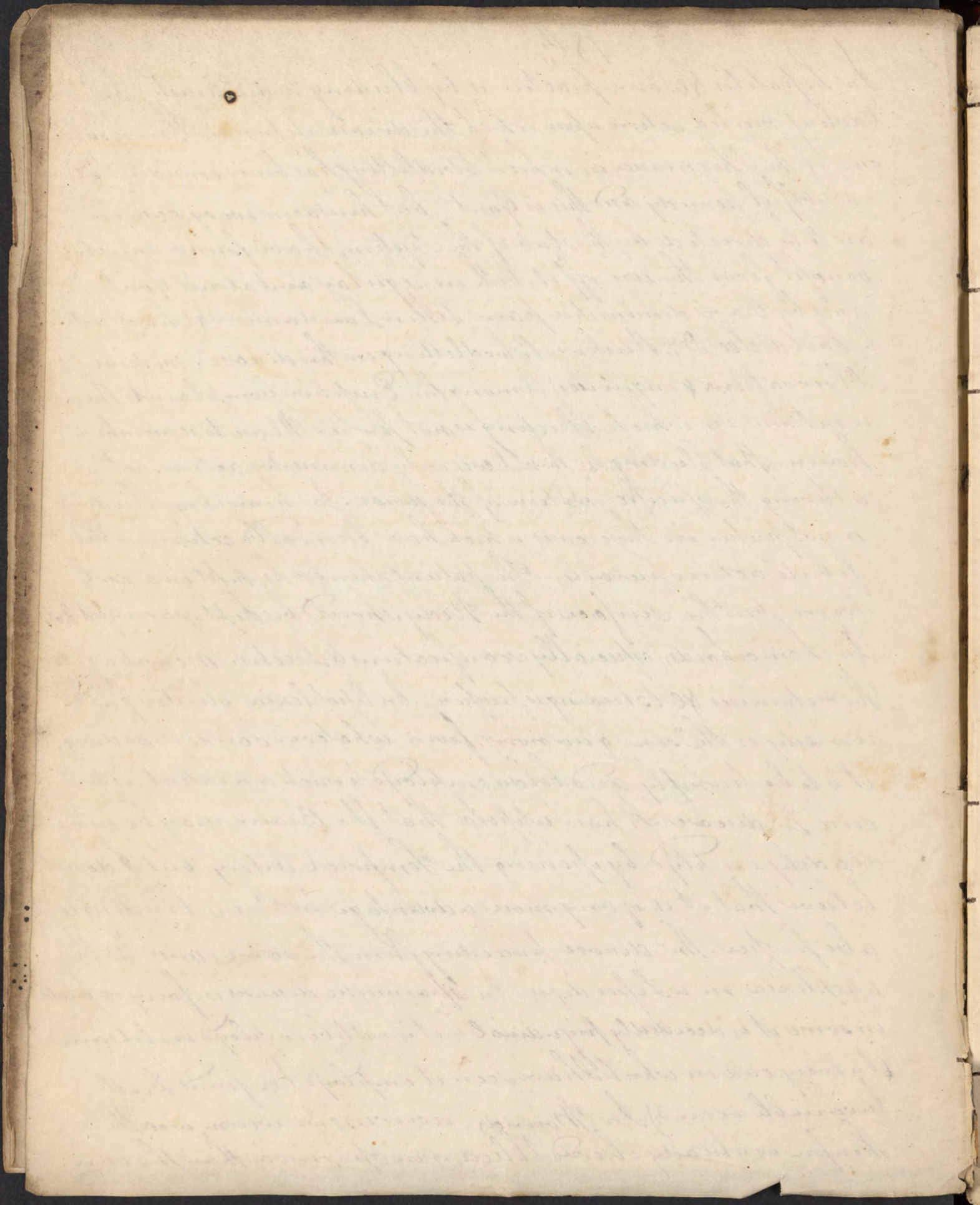


The first part of the book is devoted to a general  
description of the human mind and its various  
faculties. It is a very interesting and useful  
work, and I have no doubt that it will be  
found to contain much valuable information.  
The second part of the book is devoted to a  
description of the human body and its various  
parts. It is a very interesting and useful  
work, and I have no doubt that it will be  
found to contain much valuable information.  
The third part of the book is devoted to a  
description of the human mind and its various  
faculties. It is a very interesting and useful  
work, and I have no doubt that it will be  
found to contain much valuable information.



In hepatitis &c our practice is by bleeding to diminish the Existing morbid action upon which the disease depends. There is only one of the Phlegmasies in which bloodletting has been considered as a doubtful remedy and this is Gout - but here as in every case we are to be directed by the state of the System. I have found much benefit from the use of it both in regular and atonic Gout and by it have diminished pain when Laudanum &c had entirely failed. (See Dr. Rush on Bloodletting in this disease, medical Observations & enquiries) Among the Eruptive Complaints there is not one in which bleeding is not proper. We are to remember however that bleeding in these cases only diminishes action not altering the specific nature of the disease. In hemorrhagy bleeding is not proper in those cases which have been called action over where feeble action prevails. - The patient should be kept in a cool room but the surface of the Body should be kept warm not hot. In hemorrhoids, especially scorifications & Lecches. Menorrhagies Hemetisms &c Bleeding is proper. In Apoplexia bleeding as a remedy is the *sine qua non* from whatever cause proceeding it is to be promptly and boldly employed to such an extent as to cure the disease. It has supposed that the Brain may be more readily emptied by opening the Temporal Artery but I do not believe that it is of any more advantage. In Palsy bleeding is also proper tho' disease proceeding from the same cause as the apoplexia in a lesser degree. In Spasmodic diseases is of very value in some it is decidedly prejudicial - it is not to be employed in tetanus (In every case in which I have seen it employed I've found Death Invariably occur) In Prouges occurring in warm weather therefore as already observed bleed more sparingly than the case would







Would apparently warrant, but it is to be observed that if  
 there be considerable fever present bleeding is <sup>not</sup> to be ~~considered~~  
 omitted. In convulsions & violent muscular affections from  
 hysteria Bleeding is of Importance. The powerful effects of  
 Bleeding in removing muscular affections is most powerfully  
 illustrated by their efficacy in removing the difficulty of  
 Reducing Dislocations when the Muscular power had resisted  
 the force of Considerable Mechanical strength. In Colic Bleed-  
 ing ~~is~~ is often essential it relaxes spasms prevents Inflammation  
 & in Spasmodic colic Up or Cupping is powerfully relieving  
 pain. In Bowel Complaints the pulse is not a proper guide  
 in them we are to be directed by the Violence & Continuance of the  
 pain remember that you are to consider Bleeding as your  
 most potent remedy in the treatment of disease, but remember  
 also that here discretion is the better part of valor. It no doubt  
 has been misused by Ignorant & rash practitioners - like other  
~~meds~~ the prejudices of many people are against the use of it. You  
 will find in Cooper's Surgical Dictionary my opinions on the  
 means of performing the Operation which are in favor of the Spring  
 Lancet. Much has been written of the proper place for the  
 Operation it is in general performed in the Arm. In fat Children  
 the Saphena when it crosses the internal ankle may be opened  
 with advantage - as also the jugular vein - Opening an Artery  
 is not in general proper -



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20<sup>th</sup>  
November 27<sup>th</sup>

19

### Of Local Bloodletting

Scarification is in general used in cases of Local Inflammation as in Ophthalmia in this Instance with the Shoulder of a Lancet or with a Scalpel the Inflamed Vessels are to be opened in many cases the best effect arise from Scarifications Perhaps when the ~~emptied~~ vessels emptied may contract and the adhesive action used to heal the Incision is probably a New Liction. Cupping the ancients were much in the habit of using cups Celsus describes the operation for many Centuries it has and still continues to be a favorite operation in topical Inflammation it should not be used untill the Vessels are to be emptied by general Bleeding They are useful not only in Local Inflammation but to draw Blood very slowly when general Bleeding would produce fainting & dangerous symptoms, Celsus says Cupping is to be used in diseases where general bleeding weakens too much In case of Local without apparent disease cupping is useful In case of an equivocal as in Typhus Pneumonia cupping is proper they should be put on the Back or parietes of the Thorax In this disease I never saw Cupping do harm Leeches have been long used in other countries and have now been added to the list of our remedies They are mentioned by Pliny. They are of Immense importance in cases of local inflammation they act in the same manner as cups have advantages over them In the case of wounds or contusion of the joints or Limbs cups from the pain they produce cannot be born now in these cases leeches to may be applied much



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



neener the parts than the cups in many cases as in  
 Ophthalmia, Inflammation of the Gums &c. In Addition  
 to this cupping is now painful and leaves greater scars.  
 The British Surgeons direct leeches in a ridiculous manner  
 prescribing one leech in cases of Ophthalmia where we  
 would use a Dozen Their is as little adapted to the cure  
 of our diseases as Dutch foot shoes are to the frozen zone  
 Leeches are sometimes employ'd in cases of young Children.  
 Prejudice exists against bleeding in young children and  
 many die in consequence of it from my own experience Children  
 recover after accidents that would have destroy'd adults, they  
 been the better remedies except in cases of Salivation which  
 induces Sphinking of the Gums fac &c. From this view of  
 the Tenacity for life in Children I call upon you to bleed  
 them as freely as possible in proportion as you would adults  
 In Croup of Children bleeding is our only remedy In Infantile  
 Pulmonary complaints bleeding is to be copiously employ'd  
 The same is the case in Hydrocephalus in Convulsions  
 we must bleed and that frequently.

## Of Emetics

Emetics are such remedies as invert the peristaltic  
 motion of the Oesophagus and stomach & discharge the  
 contents of the latter The earliest records of ~~Man~~ contain  
 accounts of the employment of Emetics prejudices have  
 existed against these ~~Man~~ they have been said to be  
 unnatural remedies In health this it is true is the  
 case







case but in a diseased state of the stomach they are natural means of getting rid of the offending matter, as much so as the winking the eye is natural when we see a blow aimed at it. That Emetics are not dangerous remedies the daily experience of the world proves sufficiently. The Physiology of vomiting has been clearly made out. The Stomach was formerly supposed to be perfectly inert the effect being produced by the action of the Diaphragm & Abdominal muscles. This however is fully disproved by the fact that we use those agents without even inducing Nausea. But Dr. Haughton opened the abdomen of a dog during vomiting and saw the Stomach in action again in some persons after vomiting the disgust is so great that the Oesophagus contracts on again preventing the food and denies it admittance. The frequent bringing up of food from the stomach without any effort of the abdominal muscles is also another proof of the action of the Stomach in vomiting. The Inversion of the motion of the Stomach is continued to the duodenum. The action of the abdominal muscles naturally empties the bile into the duodenum and from thence it passes during vomiting into the stomach. That the bile thrown up in vomiting did not preexist in the stomach is proved by the fact that the first matter thrown off is free from it. Dr Darwin Theory of vomiting being produced by decreased action of the Stomach is disproved by many facts. There are many states of the system in which vomiting takes place and this may either be ~~made~~ a state of weakness as after bleeding - Opium &c or after excitement as emetics. After administering an emetic







in a proper dose for 10, 15, or 20 minutes the stomach remains easy then a sense of uneasiness and nausea comes on and increases until vomiting commences while the nausea only is present the face is pale the pulse quick, feeble & irregular and there is a sense of cold but when the vomiting commences the face is flushed the pulse quickened though still feeble the vomiting recurs twice or thrice and then ceases a degree of nausea remains for a short time the pulse becomes fuller but is weak and slow there is a degree of languor and a disposition to sleep & a moist skin. Emetics act differently in different constitutions in some it is easy in others it is attended with dangerous symptoms as spasms hemorrhage Boerhaave relates a case of Death from an Emetic taken by a Dutch glutton to what his appetite before a Feast In fevers especially when bilious symptoms predominate vomiting is easily procured whereas in Mucous the action the action of Emetics as well as that of all other Medicines is difficult of being procured. In Fevers &c large doses of ~~Opium~~ Emetics are required to excite an effect this is likewise the case after taking large doses of Opium or other poisons as Arsenic &c. Dr Murray observes that the nauseating effects of the different Emetics are very diversified a circumstance which is to be attended to in the Administration of Meds. The effects of Emetics upon the general system are to be referred to the sympathy existing between the stomach & heart, skin kidneys, head &c. It has been remarked by Murray that Emetics if they fail of vomiting induce purging but though true of Tincture of Ants







I do not know if it be a universal occurrence. Some advocates of Emetics recommend their Occasional use in in health (vide Cullen) on this subject common sense is the best guide. Medicines in health are always improper if not dangerous. The use of Emetics in Fever has been highly extolled by my two last predecessors in this Chair and I most fully concur with them in their Opinions of their good effects. In Billious remittent & Intermittents they are Indicated by the State of the ~~Stomach~~ they are here particularly useful in Warm Climates. If Febrile symptoms run high bleeding should be premised Boerhaave very properly directs emetics to be anticipated by Bleeding in every case when plethores and an Emetic is to be required. Their Operation is much more beneficial he observes after I think this is a most valuable direction. Dr. Cullen's observations on the employment of Emetics in fever are very correct (see First lines) In Intermittent Fevers accompanied by a phlogistic diathesis Bleeding should be first employ'd then Emetics, both at but in mild cases when the pulse does not Indicate bleeding. Emetics are highly beneficial in the first Instance as precursors to the use of Tonics. The best time for employing emetics in this disease is Immediately before the expected paroxysms. Dr. Sydenham directs a combination in Intermittent of Part. Emetic and Spessac because he says this induces besides emetic effect diaphoresis and purging which imitates the natural crisis. In a former part of the course I hold Upon the face became flush'd during Vomiting hence is derived a practical direction not to use emetics in diseases of the Head - Sydenham directs in these cases not to lay aside the use of the Emetics but to premise bleeding.







In Epilepsy emetics are beneficial. Fothergill gave them in Epilepsy where it is to be derived from the Stomach. They may be used but blood must first be drawn. I never saw true Epilepsy derived from the Stomach in any way in which Emetics were proper, a case occurred to me in which a patient who had the palsy vomiting was produced in consequence of some offending matter taken into the Stomach during the action of the Stomach a Vessel was ruptured in the cranium. Emetics are however invaluable in cases of Spurious Epilepsy from Indigestion or from overloaded Stomach this only resembles Epilepsy - it differs from it 1<sup>st</sup> in its course 2<sup>nd</sup> In the Absence of Stertor in Breathing 3<sup>rd</sup> By a low, small & frequent pulse 4<sup>th</sup> by distention of the Stomach and bowels being perceived upon examination - here Emetics must be used in conjunction with further Bleeding & remove all Obstacles from the Vessels of the Brain. In Hydrocephalus Internus Emetics are very doubtful remedies when used out of Excitement Absorption - Small doses in protracted cases are however very beneficial Dr. Chapman's theory of this disease is erroneous - In the phlegmatics general small doses of Emetics are sometimes proper. In Remittent Gout Dr. Barton directs their Employment - Dr. Chapman also. This form of Gout is seldom met with in this City - In common Rheumatism they are not so good as small doses of Emetics which produces Diaphoresis. - Dr. Barton conceives in Gout Emetics are most proper when it induces Vertigo &c. Others only direct them when very pressing symptoms requiring their Operation are present.







In Acute Gout I think them improper. In Chronic Gout  
emetics that have been found beneficial I believe when you  
manage this disease by bleeding and other Evacuants in its  
commencement emetics will be useless. In all the disorders of  
the Throat emetics are very beneficial — to postpone the use  
of the Tongue or Throat Emetics are barbarous remedies. In  
Croup they are in the highest degree useful they appear to  
arrest very speedily the dangerous termination of this disease  
When called in the Night to Children who you suspect to be  
attacked by this disease. Never fail to carry with you your  
Lancet and Emetic Tartar, the relief here from an emetic  
is often very sudden. In acute diseases we must if we wish  
a favourable result commence with the most active remedy  
but this is the case in the present disease. Emetics have been  
supposed in this disease to evacuate the Membrane Practitioners  
supposing all the Symptoms to depend upon Mechanical  
Irritation of this Effect of the disease. I conceive the spasmodic  
contraction of the Glottis &c to produce the difficulty of Breathing  
and other Symptoms. Once commenced the Operation for  
Opening the Larynx in a case of the Croup the pain & fright  
produced an instantaneous relief of the symptoms doubtless  
by relaxing the Spasm. Emetics are beneficial in Pulmo-  
nary Complaints small doses here act as an expectorant  
and Diaphoretic. In Asthma and Catarrhal affections  
they are very beneficial — A Physician in the South writes  
to me that he had discovered a Specific for the Catarrh  
in Emetics used in the commencement. In consumption  
they are often employ'd but when weakness present they are improper.







In Mania I have kept up a continual Nausea for weeks and have found benefit arrive from the practice. The ~~positive~~ effects of Emetics are in combination with bleeding highly important as a means of rendering restraint more easy in this disease. In Mania a Potu. Dr. Wlapp has in the City almshouse used Emetics - to produce their effect he has found Large doses as ʒj or ʒss Tart. Emetic required. Dr. Wlapp states that when from debility present you would not use other Depletents he found the pulse raise under the Operation of Emetics. That there must be varieties of Constitution in Mania a potu. I have not the least doubt and where there is a Strength enough to bear the Emetic - use it - but not when the Weakness is present. By Dr. Physicks advice I used Nauseating doses of Emetics in Cases of Tetanus in a Child arising from a Wound. The Patient recovered - but I should be unable to resort to this practice only. In Instances of Obstinate Muscular contraction after Dislocation and Hernies when from present Circumstances bleeding is not advisable nauseating doses of Emetics may be employ'd. When any body as a ~~Black Stone~~ is Spasmodically retained in the Oesophagus a Solution of Emetic Tartar held in the Mouth though never be swallowed will relieve the Spasm and allow it to be removed. Two cases of the kind occurred when I experienced benefit from the remedy - On the same principles probably it is that Emetics are useful in accelerating the passage of Gall Stones in the Gall bladder and urinary Calculi through the Ureter. There are many affections of the head in which



The human mind is a complex of many  
faculties and powers, some of which are  
the result of the action of the senses, and  
others are the result of the action of the  
mind itself. The mind is a powerful  
organ, and it is capable of receiving  
and storing up a vast amount of  
information. It is also capable of  
reasoning and of making judgments.  
The mind is a very interesting  
subject, and it is one that has  
attracted the attention of many  
philosophers and scientists. It is  
a subject that is still being  
explored, and it is one that is  
of great importance to us all.



Emetics are of decided benefit as in sick head ache Dr. Barton in these cases prefer'd Spueachuanke from its mildness and the continuance of its operation. In pain of the Head from injuries of that part unaccompanied by fracture or Wound Dr. Physick has found no remedy so beneficial as Emetics repeated daily for a short time then at longer intervals. In puerperal fevers emetics have of late been recommended in this as in all other diseases of the peritoneum great danger is to be apprehended I do not think that Emetics have any specific effect here but where they are indicated they should be used. Puerperal fever in its advanced stages is accompanied by a black vomit and closely resembles yellow fever. Emetics in this disease are to be employ'd according to the directions under Billious Fevers. In hemorrhagy they were first used by Bryan Robinson then by Cullen (see first Lines) I never use Emetics in Hemoptyses but small doses are of benefit. In uterine hemorrhagy emetics have been used in Europe. I have repeated the practice with some benefit. In Bloody urine emetics have been used with benefit Dr. Barton employ'd Spueac in combination with Opium in this form it did not produce vomiting & I fancy all the benefit was deriv'd from the Opium. In Hernia Humoralis they are in combination with blood letting this latter remedy should not be neglected. Obstinate Buboes have been Dissolv'd by emetics but here a blister is the greatest remedy They have been Employ'd in Dropsy That emetics promote Absorption there is no doubt but there is less reason to







Believe them capable of absorbing more water than purgatives  
When used in small doses the theory of their operation is much  
more easily made out. In cases of Anasarca from Intermittents  
Emetics in combination with Mercury are very beneficial  
In Hydrocele I apprehend no benefit from these or any other  
mode given by the Mouth. In Acute inflammations however  
of the organs the case is different tho' the parts are here very  
susceptible of Impressions made on the Abdominal viscera  
In Hydrothorax emetics should have been employed.  
Sydenham recommends Emetics in Circles, Pritchard  
recommends them in Diabetes. In dysentery emetics  
have been recommended but I conceive that the disease  
should be treated precisely as every other febrile disease  
whenever emetics are indicated by the case & they should  
be given. In Diarrhoea emetics are proper in those cases  
especially where it has arisen from a Sordid Stomach  
and also where it comes on in a catarrhal kind in all  
these latter cases small doses of Emetics are to be employed  
in conjunction with flannel next the skin. From a remark  
already made you will readily believe that emetics are  
proper in Dyspeptic cases Dr. Fothergill employs them  
in this disease. In Ricthia emetics have been used, tho' emetics  
must be proper in this disease I believe because the disease  
is often connected with obstruction of the viscera, but after  
the digestion &c becomes regular tonics cold bath especially  
sea bathing and steel are the proper remedies. This disease  
is seldom met with in this country. In Fluor Albus  
and Chlorosis emetics have been employed.







*Tic Dolorum*. The first case of this disease on record was cured by Hemlock. - Fothergill's account read before the London Med. Society contains the first accurate account of the disease - From Imperceptible beginnings the disease arises to a degree the most alarming - it attacks the parts about the orbit side of the face &c. The pain comes on suddenly and is very excruciating but goes off in half an hour - the kind of pain attending it is differently described in different persons it returns as often in day as in the night and is excited by the slightest touch or motion while the strongest pressure does not excite pain. It differs from any aneurmatic affection of face in its occurrence not being regular - The tooth ache seldom remits until the tooth is extracted whereas the *Tic Dolorum* is not present unless excited by some slight touch or motion of the part. The cause of the disease is unknown: within a few years many cases have occurred and many cures have been recommended as bicutes, actual caustic. Morda &c.

Hayton succeeded in removing it by cutting the Infra orbital Nerve but the disease returned. In other cases there was an abatement of the symptoms after they cut out a portion of the Nerve which had the effect of blunting the pain. Dr. Physick has tried emetics in this disease with success one Patient has remained free from pain ten years. In the class of Craption emetics have been used in all diseases of this kind accompanied with Febrile symptoms they act on the same principles as in all other







Febrile disease, but there are other diseases of this class  
 which depend on disorder or Idiosyncrasis whose Emetics are  
 the principal remedies. Mode of Administering  
 Emetics. Instances occur where poisonous substances in  
 the stomach requires instantaneous discharge Emetics  
 should be given in large doses at a time. On the contrary  
 in many chronic diseases emetics are to be continued daily  
 for sometime Emetics should never be given in an advanced  
 state of pregnancy and they are generally improper during  
 menstruation. Persons afflicted with hernia should be cautious  
 in the use of them whenever plethora is present It is to be  
 premised The activity of the Emetic is to be regulated by giving  
 the Dose in divided doses when violent symptoms from an  
 overdose cordial drinks, opium, blisters and sinapisms are  
 the remedies. Warm Water, herb Tea drank after an emetic  
 renders its operation more easy - we should remember to  
 direct our patient not drink before the Emetic effects come  
 on and then they should drink after every action remembering  
 after that large portions are better than frequent sipping.  
 Drinking after emetics is less necessary in children than in  
 adults. If a violent emetic operation is required no drink  
 is to be given. We are next to consider the Individual emetics;  
 the divisions and subdivisions of these, by former writers on  
 the Materia Medica, are perfectly Useless - Among the  
 most lenient emetics most writers have enumerated warm  
 water tepid impregnated with Nauseating substances, Irritating  
 the Lungs &c &c - — — —







Vegetable Emetics *Specacuantha* - *Calicooca* *Specacuantha* of the botanist This is a native of Peru. There are two sorts imported, a brown and an ash colour, the last of which is the most active - Cullen supposed the active properties of the plant to be the resin and to reside in the Bark, hence he and Dr. Lewis who is nearly of the same opinion direct as a menstruum for the *Specacuantha* equal parts of Alcohol and Water - but wine is a very good menstruum. Cullen and others who suppose the active properties to reside entirely in the Bark are mistaken. The wood is active in the proportions of two parts to one of the Bark. The *Specac.* is most commonly exhibited in substance. Its medicinal properties are volatile and hence we should give the <sup>powder</sup> in Decoction. The quantity necessary to vomit varies in different persons, some are affected by a single grain, whilst in South America we are told the Inhabitants require from 30 to 60 grains. The medicinal dose I direct is from 15 to 20 grains; I have never heard of any bad effects from an overdose: when we wish to augment its effect, we should add to it Emetic Tartar. with respects to the doses of Emetics Dr. Ferri says where emetic effects are required, the dose is not of much consequence and it is thrown up by the first effort, but this is not in every instance correct. The violent effects of a large dose of an emetic continues after the emetic is thrown up from the stomach. The cases of disions, to which *Specac.* is adapted, are numerous; it is not to be employed in those cases where a violent operation is to be required its operation is mild and is frequently accompanied with increased peristaltic motion of the Intestines.







That however its good effects in bowel complaints do not result from this circumstance is evident though referred to it. The *Spæca* has been employ'd in Dysentery, possibly as suggested by Morely it may in this disease by producing diapnoesis. Murray considers *Spæca* to be an Antispasmodic also others as an Astringent Dr. Chapman as a sedative or as a means of weakening the force of the circulation. By giving 2 or 3 grains at a time or at intervals of 3 or 4 hours, we will gain all its effects. Dr. Barton us'd it in Dysentery both acute & chronic: I have us'd it in combination with chalk & Opium beneficially.

It is useful in Diarrhoea especially in that species from irritation in the stomach, for 2 grains are to be given before rising and an anodyne at night. In hemorrhagy from the Lungs small doses to keep up a continued effect are useful, as also in uterine hemorrhagy it should be given in combination with Opium or sack so that the effects of which latter it augments — — — — —

To be taken every hour or every second or every third hour — — — — —

*R* Sack 3 or 4 gr  
Gum Opium 1 gr  
Pulvis *Spæca* 1 gr

In fever it is employ'd and in small doses combined with Nitre acts as a Diaphoretic. In Intermittent fever for its employment see Cullen. In consumption it has been found of benefit Dr. Keuhn and Dr. Barton employ'd it in this disease in nauseating doses with benefit. The latter gave it in combination with chalk. I should prefer giving it with Nitre. In dyspepsia doses from 1/2 a grain in combination with other remedies the *Spæca* is beneficial. Aken-side has recommended it in Asthma. The relief obtain'd is not supposed to result from its emetic operation, its use here is sanctioned.







by repeated experience, of its use as a remedy in Dropsy I have  
no experience except in Hydrothorax where I found it to diminish  
the difficulty of Breathing. In Ascites it has been employed  
under the form of Dover's Powder. In cases of Poisons from scorpion  
to half an oz. should be given. According to Dr. Lewis the Spicae  
Americanae the Operation of Galap as a purge.

*Spiraea Trifoliata*, Indigenious, The Emetic powder, resides  
in the cortical part it has a near resemblance to Spicae - Dose 30 or  
40 gr. The size of the dose is a great objection. When Spicae can be  
procured it deserves the preference. Tobacco, *Nicotiana Tobacum*.  
of the Botanists this plant is emetic in the highest degree, it is  
also narcotic, Diuretic &c. Dr. Cullen objected to it on account of  
its harshness. It having no qualities preferable to other emetics  
it is seldom employed. in small doses it has been used in  
Maniacal cases but I doubt its efficacy in many of these  
cases. my two last predecessors recommend it in cases of poison  
but I think here the system is too prostrate to warrant it the  
best method of using tobacco is in the form of a cataplasm.

Squill. *Scilla maritima*, native of Spain, nauseous, bitter,  
& acrid taste it irritates the skin when much handled, hence  
the Turks employ the fresh squill under nearly the same  
circumstances as we employ frequently the Onion externally.  
Its active properties are fixed and the dry specimen is more  
active than the fresh it may be employed in Decoctio or in  
substance &c &c. it has been given in Consumption and asthma  
as an expectorant and in Hydrothorax as a diuretic  
it seldom used as an emetic <sup>the dose</sup> is from 4 to 8 grains.



The first of these is the fact that the  
 system of the mind is not a mere  
 collection of ideas, but a system of  
 ideas, which are connected together  
 by a certain order, and which are  
 subject to a certain law. This law  
 is the law of association, and it is  
 the basis of all our knowledge.  
 The second of these is the fact that  
 the mind is not a mere receptacle  
 of ideas, but a power of thinking,  
 which is able to combine ideas  
 together, and to form new ideas  
 out of them. This power is the  
 power of reasoning, and it is the  
 basis of all our wisdom.  
 The third of these is the fact that  
 the mind is not a mere organ of  
 sense, but a power of feeling,  
 which is able to experience  
 pleasure and pain, and to be  
 affected by the emotions. This  
 power is the power of sentiment,  
 and it is the basis of all our  
 morality.



Mineral Emetics Antimony found in Germany, Hungary, Saxe and England. The most ancient history of this article speaks of the use of it as an Eye water and to stain the skin of the Eye-lid & Lids Black. No Individual article has varied so much in its character among medical men in different ages as this. There was a time when all sciences slumbered from this Roma it <sup>was</sup> raised by the chemical world whose crucibles were never empty, their fire never extinguished Every Mineral was tortured by them for the fallacious hope of finding the Philosopher's stone. This Examination into Nature introduced into many articles more valuable than the Gold which they were in search of - among them was Antimony - the regulus was not perfectly inert for when taken into the stomach it produces emetic effect without appearing to lose much of its substance within the perpetual pill - there is no Instance of an article served up in so many forms as this -

Tartar Emetic Tartar Ant. et pot. It is made by boiling together Oxyd. ant. per & tart. potasse & super tartar potasse in water it is powerfully Emetic Dose from 2 to 5 gr it is generally given in divided doses ℞ Ant Tart 5 gr  
 One spoonful to be given every 15 minutes - till it operates ℞ Aqua commun 5 Spoon  
 To children from 2 weeks to 2 months old ℞ Ant Tart 2 gr  
 A Tea spoonful every 15 minutes ℞ Aqua 16 Spoonfuls  
 To a child one year old 1/4 gr after 4 years of age 1/2 of a gr  
 The doses I have mentioned in severe cases are to be augmented remembering to give it in divided doses.







The Wine of Antimony is more generally employed in diseases of Children; According to the London Dispensatory the Antimonial Wine is made by dissolving Tartar Antij in Aqua bullient  $\mathfrak{z}\mathfrak{i}\mathfrak{j}$  and adding wine  $\mathfrak{z}\mathfrak{i}\mathfrak{v}\mathfrak{i}\mathfrak{j}$  *super* the watery solution - the wine may be given to Children (very young) measuring the doses according to my former remarks. In cases of Croup the watery solution is in every Instance to be preferred. The dose of the wine according to the London Dispensatory is  $\mathfrak{z}\mathfrak{ss}$  to Edinburgh  $\mathfrak{z}\mathfrak{i}$  Emetic Tartar when given in a proper dose is the most certain of Emetics it afterwards acts as a Cathartic and Diaphoretic & sometimes as an expectorant. The Emetic Tartar is extensively employed in Intermitting, remittent & continued Fevers. From its Cathartic and Emetic effects it was supposed to do good in these diseases Sir not unusual says Fordyce for a patient in Remittent fever after the action of Emetics to fall asleep and a complete crisis follow. But it sometimes does good without either acting as an Emetic or a Cathartic. By Inducing Diaphoresis & indirectly acting on the Heart & Arteries. Cullen supposes them to act in this disease best when it causes nausea. Fordyce says if Antimony produces vomiting or considerable nausea their effect is counteracted - This is an error Dr. Keightley declares the benefit from Tartar Emetic the most striking when administered in Divided Doses to occasion nausea. In the Phlegmasia the use of Tartar Emetic has long been considered as a very important remedy.







It is only used however in combination with other remedies and is generally given in combination with Nitre. In Hemorrhagy it is pretty extensively employed in those cases accompanied with Febrile symptoms. In common cases of hemorrhagy Speccat. is to be preferred. In Small Pox and in other eruptive diseases Emetic Tartar is given to vomit when Eruption is tardy and in small doses during the Febrile stage. These are various Eruptions depending on Indigestion in which Tartar Emetic is the proper vomit. The most common of these is Atticaria not the Atticaria of Webster it occurs from eating various articles to which the stomach is not accustomed. In Leprosy & Venereal diseases The emetic Tartar is totally useless. Dr. Willan recommends the Long use of Antimony in Chronic Eruptions. I think the Mercury a much better remedy. The topical use of Tart. Antimony to Chronic Eruptions Dr. Ross says he has found of benefit. Sir John Pringle & Baker speak highly of the use of Emetic Tartar in Dysentery as this is a febrile disease it should be treated as one. In this disease I think Speccat. is best. Hold you that in ~~Antimony~~ many cases of Muscular contractions small doses of Emetics were proper. Emetic Tartar is the best for this purpose. This is also one of the Emetics used where poisons have been taken it may be given by the Mouth or in Enemata.







It is in this form destitute ~~from~~ <sup>the</sup> of depressing effects of Solaceo and is said to vomit. I have however used it without the least effect. Dr. Chapman is the first that employed it in this manner. He has also used it in cases of Obstructed Bowels he directs 8 gr in solution every 15 or 20 minutes. he likewise employs it in Idiopathic Tetanus Tartar Emetic forms useful irritant when externally applied and may be employed in many Pulmonary cases when blisters are inconvenient. It is applied by sprinkling the powder of Emetic Tartar. In chronic pains of the chest I have used this remedy with benefit. The Tartar Emetic is almost the only mineral emetic employed in England and America but there are others which are used on the continent of Europe especially in France - As the Hermis Mineral dose 1 gr to 1 1/2 grains Golden Sulphuret of Antimony differs but little from the former.







beated glass of Antimony has no advantage over the  
 Emetic Tartar and is frequently a dangerous remedy —  
 Sulphas Zinci. This a powerful Emetic in doses from 10 to 15 gr.  
 It is from its operating speedily peculiarly adapted to cases  
 where poisons especially Sarcotics have been taken it  
 should in these cases be taken in large doses ʒss to ʒi — Bullen  
 objects to it from the largeness of its doses and long continued  
 doses on account of its violence that Induces — These objections  
 are not however of much weight — A tea spoonful of mustard  
 taken after the Zinc increases its effect Mosely with whom  
 this *M<sup>de</sup>* is a great favorite, says it never induces spasms  
 of the stomach or irritation which are apt to follow other  
 Emetics. Except in cases of poisons I know nothing to say  
 in its favor over other Emetics It has been employed in  
 some cases of Pertussis with benefit In cases I prefer the  
 Emetic Tartar decidedly — Dr. Mosely directs the *M<sup>de</sup>*  
 to be employed in the following manner —

Colatet caps

ʒss per dose

*R<sup>ss</sup>* Sulphas Zinci ʒiij

Rube Alum ʒi

Ugna Bullant lbj

I am an advocate for this solution in Dysentery or  
 Diarrhoea as recommended by Mosely who ascribes to it  
 many virtues he says when Employed in Cholera Pictonum  
 after the loathsomeness is subdued he never found Palsy to  
 occur. In most of the cases in which this *M<sup>de</sup>* was  
 employed by Mosely I conclude the Antimony and Spasms  
 are preferable



The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.



*Sulphas Cupri*. This article proves a prompt and powerful emetic Dr. Hartshorn has employed it in the dose of  $\mathfrak{ss}$  when large doses of Opium have been taken and speaks highly in its favor. Its average dose is from 2. to 5 grains I have known  $\mathfrak{ss}$  gr. prove an Emetic. Simmons (of London) employs it in preference to all other Emetics in pulmonary complaints Dr. Senter speaks also in its favor he gave it in combination with Speacac. Dr. Cullen is not favourable to the use of the Copper I declare it to be an unmanageable emetic as it occasions less relaxation than other Emetics it has been employed in Cases of Consumption with Debility Several Mercurial Salts are Emetics Corrosive Sublimato Dr. Barton has recommended this med in croup but it is a harsh and dangerous article. Sulphith Mineral - Sub Sulphos Mercurii. This article acts as an emetic in the dose from 3 to 5 gr. - It has also been employed as a Sialagogue see Dr Cullen whose remarks on Mercurial Emetics I fully coincide in - In Hernia Humoralis it has been supposed to be well adapted because it produces both Emetics and Sialagogue ~~the Calomel is much better~~ effects - but as an Emetic the Tartar Emetic and as a Sialagogue the Calomel is much better.

In concluding the article Emetics I have to remark that the list has been swelled far beyond the size I have presented to you but I conceive that whoever experiences from the Materia Medica an exact article will become as great a benefactor to society as he who adds a new one.







40

# Cathartics.

The term Cathartic is exclusively employed to denote such articles as empty the Intestine they have been called natural remedies because they merely increase the natural evacuations. They are very ancient remedies. No notion however made, but are acquainted with their use. Amongst the various modes of exciting the action of the Intestine some Difference is to be observed. One portion as Cold, fear &c act by exciting the Muscular Action of the Intestines - Another as the Stimulating purgatives by increasing the secretions poured into the Intestines. Others by exciting both Actions. I shall treat of them all under the heads of Laxatives & Cathartics - Observing that most of the active ~~remedies~~ members of the class may be so managed as to produce merely cathartic effects. The effect of cathartics taken into the Stomach during a healthy state first Stimulates that organ & causes generally a greater or less degree of ~~Distension~~ the Stomach evacuates its contents into the duodenum this in its turn contracts - the gall Bladder &c are excited into Action and pour their Contents into the Intestines there is also a more profuse secretion of the mucus of the Intestines - The Stimulus is gradually communicated throughout the tract of the Intestines and an increased peristaltic motion takes place. Gripping sometimes attends - The increased secretion of mucus empties the Blood vessels and hence Cathartics are among our best and most powerful depleting ~~meds~~ ~~medicines~~







Cullen is therefore wrong in supposing them not very powerful in removing the phlogistic diathesis of the System. Besides the effects of cathartics on the Intestines & on the Heart & Arteries they also act on the Absorbents all the functions of these vessels are increased by Cathartics whether they produce this effect by emptying the Bloodvessels or by sympathy is not very Important to Determine—Purgatives like other active Meds produce in the system new Action and although purging may not suspend Morbid Action in the system they at least weaken it and assist in its removal. Although During a healthy state of the Body cathartics reduce the pulse and cool the skin yet in a palsy by removing the disease they increase both. They frequently induce sleep when opiates have failed to operate—Purging relieves the Head, Lung and Skin which is to be explained by the fact that no two Actions can exist in the system at once. Although a general state of health is not consistent with Costiveness yet the effects of Habit is such that many have not a stool more frequently than every ~~four~~ <sup>third</sup> day Dr. Physick has a patient who is uneasy if he has one more frequently. Waller cites Instances of persons passing from 5 up to 45 Days without a stool others where several years have passed and moved only 2 or 3 times in a year. B— a patient had but 3 or 4 stools per year for 15 Weeks previous to his Death he had no evacuation his Appetite was as usual until his Death pulse but <sup>little</sup>







little altered he frequently Belched up wind  
 respiration as usual, belly swelled every means that  
 Ingenuity could Devise were employ'd without effect  
 On Dissection it was found that there existed a stricture  
 at the lower end of the Colon the Muscular Fibres of the  
 Intestines were increas'd in size there was very little ~~the~~  
 other disease. As the Stricture in this and in a  
 analogous case went down in in the Colon - would  
 not a puncture in the Colon to form an Artificial anus  
 to prevent inevitable death be proper? In Mild cases  
 we have many resources by which the Patient may be relieved.  
 Even in Intussusception and hernia nature endeavors to  
 to overcome the disease. In the First Case by connecting by  
 adhesions the Intussuscepted portion permitting it to slough  
 and be evacuated by stool. In the latter by forming an  
 Artificial anus by Mortification. Constipation by  
 long continued occasions. Headache, Nausea, vomiting,  
 loss of Appetite Vertigo &c. Dr Physick has a patient who  
 loses his sight when costive, and regains it on emptying  
 his Bowels, costiveness also causes Piles. It depends upon  
 several causes upon weakness of the Muscular fibres of the  
 Intestines hence women are costive Coctus paribus, than men  
 Cullen mentions as another cause rigidity of the Muscular  
 coat of the Intestines - however opposite of the above causes  
 may be I believe them both to be correct - how far a  
 decreased secretion of the Bile may Influence the actions  
 of







of the Intestinal canal we are not fully acquainted that it does in some manner is very probable. Much mechanical Obstruction is another source of Constipation. Purgatives are the remedies for this disease but frequently after sometimes the Intestine refuse to act any longer under the same cathartic. Three Articles of the Nutrientia laxative in their Nature are to be tried first to relieve costiveness when arising from bilious Diseases Mercurial Purgatives are to be employed and in cases where purgatives fail a salivation is to be resorted to. In most cases of colic purgatives are to be employed. In some cases of colic accompanied with all the symptoms of constipation Nausea Vomiting &c. the warm bath & Laudanum & Emetics are also to be employed. In Colica puerorum cathartics are proper Pemberton directs Castor Oil and Laudanum. In such cases by Laudanum and Cathartics. In fevers Cathartics are among the most efficient remedies. The peristaltic motion of the Intestine being depressed by the Fever the contents are detained & and aggravate all the symptoms hence the necessity of keeping the Bowels regularly open. Continued fevers seldom occur without local determination hence in all these complaints the necessity of Cathartics. In Intermittents they are Indicated but are not to supersede emetics. In Billious and Yellow Fever I believe there is always an Inflammation of the stomach active purgatives are to be employed the hydragogue purgatives are the ones made use of.







In Typhus Fever Hamilton employs in Cathartics as remedies well adapted to the disease I have no doubt of the correctness of his remarks. The extent to which they may be used in typhus is greater than was supposed before his work appeared. they are to be carried as far as fairly to evacuate the Bowels Dr. Barton directed this treatment many years ago. We are to be directed however by existing Circumstances and the state of the system. In various eruptive diseases Cathartics are of primary Importance In Erysipelatous they are of Importance and require to be actively employed. In scarlatina which frequently occurs as an epidemic under various states of the system I have seen many cases and in this City purges were always largely indicated. In a majority of cases costiveness is present The oedematous state of the limbs which is apt to follow scarlatina is prevented by purging during the disease. In Measles gentle laxative are always proper and prevent any pulmonary affections from following in this disease. Bloody stools sometimes occur these do not contraindicate purging and are to be cured by small Dose. In the remedies for local Inflammations cathartics hold a high station. In Ophthalmia especially long continued Bleeding and purging on alternate days is the proper treatment Morbus Coxarius. This disease is to be treated on general principles but in spite of the remedies for common Inflammation it runs on to suppuration &c







Dr. Physick found this termination in every Instance prevented by long continued purging  
rests & splints &c. The patient Instead of sinking goes better  
under the treatment of acute and Chronic rheumatism  
purges for some of the most prominent features.

Gout has been supposed a Modification of Rheumatism  
but the two Diseases differ in their cause, seat & symptoms  
and in the Constitution affected. The most ancient Physicians  
recommended purging in Gout but it was afterwards laid  
aside. The regular Gout of the ancients was supposed to be  
a secret Disease and was not to be meddled with. Cullen  
was much supposed to believe that Gout was incurable  
by Meds. but that much might be done by Diet.  
Purges have been too much neglected. I agree with  
Dr. Cullen that Gout is cured by supporting the tone  
of the stomach and hence it becomes necessary to obviate  
Costiveness in regular Gout purgatives are proper  
Remedies. In Retrocedent gout they are to be employed  
Cautiously they have caused an attack of gout  
in the Stomach. The symptoms that indicate an  
approach of an Attack are sometimes well defined  
here we may frequently use Cathartics with advantage  
In regular Gout it is better as a preventative - When  
the disease is fully formed with great fever swollen  
feet and if the patient is not accustomed to a retrocursing  
purgatives are proper. They have been used latterly to great  
Effect







My only fear is that the Misuse of a good remedy may destroy its character - We ought to Believe without faith that Gout is not a sacred Disease but must with all others be treated according to the state of the system. Many Specifics have been brought forward they have all given way to the Ears medicinale Dr. Keelson it is a powerful ~~med~~ and has sometimes done good - it was discovered about 1770. Its taste is nauseous & Bitter smell viscid and is the colour of ale It was introduced into England in 1808 When given in the paroxysms of Gout it diminishes pain if given in the night it throws the patient into a sleep he awakes in the morning much freed from pain and has a copious Billious Stool after a few days he finds himself in every respect well For sometime past it has seldom been employed - In some cases it has failed and in others produced the most fatal effects My own Experience of the ~~med~~ is but little but that is in its favor Many Attempts have been made to discover the Composition of the ~~med~~ the Glutonium by some has been supposed to enter into its Composition - The root of the Colichum autumnale in Tincture Mr. Warr of London has declared to resemble in its effect the Ears Medicinale In all local inflammations purges are valuable Remedies. In Tonsillaries and other affection of the Throat they have unjustly supposed not so well adapted In Pleurisy &c we purge with advantage







In many cases of Consumption are seen In Apoplexy  
 purges are beneficial Assistants to us they act by  
 emptying the Bloodvessels by exciting a Counter Irritation  
 and by exciting the Action of the Brain. Hydro-  
 cephalus in the Commencement consists in an  
 Inflammation of the Brain and afterwards in an  
 effusion of water in the Ventricles. Purgatives are  
 well adapted to both Stages of the disease in conjunction  
 with the early use of the Lancet and other remedies  
 they must be used again & again so long as the pulse  
 and the symptoms indicate their employment.  
 I once tapped the Brain of a Child under this  
 but the patient eventually Died. In Mania there  
 is a remedy more frequently employed than purges  
 In Chorea the purge is urged by Dr. Hamilton -  
 The symptoms of the Incipient stage of this disease  
 indicate a Deprived state of the alimentary canal  
 The stronger purges Dr. Hamilton found were neces-  
 sary to move the Bowels I have seen two cases  
 one was cured by purging the other is under  
 treatment now Dr. Hamilton says that Chorea  
 consists of two stages in the Incipient milder purgatives  
 are sufficient but in the confirmed stage the strong  
 ones are so administered that the second Dose may support  
 the Action of the former This Treatment is soon  
 followed by the death of the patient for sometime  
 after the Disease is removed the Bowels are attended







49<sup>th</sup>

to and now Tonics &c as the Vegetables Bitters or preparations of Iron may be employed together with exercise fresh air a nourishing diet &c In Epilepsy the Nervous and Arterial system as well as the Alimentary canal are effected advantages have occurred from the use of Purgative Masses but I do not Believe they will cure the disease without Tonics. Dr. Physick had a case of Epilepsy arising from a tumor of the Thymus which was cured by its removal. Of the real nature of Epilepsy nothing is known. Dr. Rush declares after studying the Disease for many years that his mind was totally undecided as to its nature. Headach is generally symptomatic of some other disease but many are affected with it who do not labor under any other Disease The nervous and Arterial symptoms and the Alimentary canal are more or less affected in different cases It is often cured by acidity on the Stomach indigestion &c There are a great variety in the seat of the pain sometimes it affects all the Head at other times only a Part it is sometimes dull at others acute sometimes constant at others Intermittent Sometimes it gives the Patient a sense of gnawing at others a sense of opening and shutting of the sutures now and then the cranium feels sore to the touch, the feet are frequently cold in severe headache the eyes are intolerant of the Light



1894



Dr. Rush had a Patient who for 40 yrs was af-  
fected with headache. The headache is frequently dependant  
on intemperance, acidity of the stomach, constipation of  
the Bowels too long abstinence too little or too ~~little~~ <sup>drunk</sup>  
sleep obstructions of the natural evacuations, repelled  
Eruptions, blows on the head &c Vomiting are to be  
employ'd to remove the remote causes. I have cured  
many Patients by a breakfast & supper of Rye must  
and gentle laxative Meds. The habitual use of cathartics  
~~are demanded~~ ~~very frequently the heart & arteries~~  
~~are affected as well as the stomach~~ frequently effect a  
cure. Magnesia is particularly indicated when it  
arises from acidity. During the paroxysm if severe  
is proper tonics are sometimes required. In hysterical  
cathartics are demanded. Very frequently the heart  
& arteries are affected as well as the stomach & nervous  
systems. Dr. Rush considered Hysteria as genuine  
gout. In many cases of dangerous diseases the occurrence  
of hysterical symptoms is to be lauded as a favorable  
symptom. In violent cases of this disease Op is to be  
resorted to as well as purgatives of the most drastic kind.  
In tetanus from wounds purgatives may have been  
recommended but this disease should never be treated  
by depleting remedies. The history of many of these  
cases said to be cured by various remedies have I doubt  
not been mistaken for other Diseases.







In dropsical diseases the purgatives are a most powerful means of exciting absorption. Those best adapted to this are the Hydrogucs. These are, principally the saline ones at their head we place the Crem, tart. There are however many cases of Dropsy accompanied with a change of structure in some portion of the system here Cathartics fail and the Proper remedy is a gentle course of Mercury. Dr. Hamilton has been induced to employ Cathartics in Chlora from the symptoms of that Disease indicating a deranged state of the digestive functions. He found more or less easily moved according to the stage of the stage of the disease he cautions us to persevere in our Treatment untill the disease gives way. after purging has been carried to the necessary extent Tonics are to be resorted to. In cases of Hematemesis in young females supposed to be connected with the uterus purges are proper. There is a species of Intermittent fever occurring in Infants badly fed &c accompanied with tumid bellies, foetid breath a disordered state of the Bowels & Emaciation in which purging is the principal remedy I presume Dr. Hamilton has this disease for marasmus. It would be easy to swell the list of diseases in which purges are the proper remedies. I have mentioned principally those in which they form the <sup>principal</sup> ~~proper~~ remedies. In concluding I have to observe that in acute diseases we use







purges as assistants to the general plan of treatment but in chronic cases we use we use them alternate and hence their frequent repetition should be assiduously persevered in. In these cases we are to employ those cathartics most agreeable to the stomach. Probably when we consider the great benefit derived from a regular state of the Bowels the good effects ascribed to the European mineral waters & springs may in a great measure be owing to their purgative qualities combined with the curative effects of the journey &c.

### Of Particular Cathartics

*Vegetable. Sinapis. Mustard white & Black*  
To obtain its cathartic effects the mustard is to be given unbruised in the dose of a Table spoonful three times per day - it is the mildest and purest specimen of a Laxative

*Juglans Cinerea, Indiginious. Dr. Barton declares the white walnut to be one of the most valuable <sup>own native</sup> cathartics. The part employed is an extract of made of the inner bark of the tree - It is laxative in the dose of from 10 to 10 grs - and in from 14 to 30 it is cathartic. The Farmers employ it in their Veterinarian practice the pill made from the extract forms a common family medicine among the Country People*







*Podophyllum Peltatum*. May apple. This  
 Ind. has excited much attention among American  
 Physicians - the fruit is excellent and the leaves  
 are <sup>said to be</sup> poisonous the root is the medicinal part and  
 the medium is 10 I have not had sufficient  
 experience with the Ind. to decide on the comparative  
 effects of it & Jalap. I understand that it is very  
 apt to grip many however are very favourable to  
 its employment I have found a larger dose necessary  
 than of Jalap it has been used in most of the diseases  
 where cathartics are necessary. The proper time  
 for procuring the Ind. is in the fall after the leaves  
 turn. One of its advantages is that it does not leave  
 the Bowels in a weak state.

Manna. The product of the *Fraxinus Ornus*  
 is brought from the Mediterranean - It is soluble  
 in both in water and Alcohol We cannot  
 say Cullen deny its laxative effects but he  
 considers them as inconsiderable its dose is from  
 1 to 2 ℥ It is employed more on the continent than  
 in England or America it is generally combined  
 with Senna

℞ Manna 3℥

Senna 3ss

Aqua 10℥

But I generally recommend the substitution  
 of Brown sugar or Molasses for the Manna







Honey, Brown sugar-molasses and the summa fruits might have been added but the warming their effects which is merely laxative is sufficient. The best article to work off a purge is tamarind water apple water & Casia Fistula is to be placed on the same footing as the summa fruits which require so large a dose to produce its effects as to occasion Gripping.

*Oleum Ricini*. The Product of the ricinus communis or Ricinus Palma Christi Inhabitant of the <sup>East</sup> Indies & South of Europe. The castor oil is one of the most ancient vegetable Cathartics being employed in the days of Hippocrates it is one of the mildest and safest cathartics it may be so managed as to any degree of Cathartic effect. It is adapted to most of the diseases where we have recommended cathartics. It seldom gripes - I think I have however seen it occasion Piles. In most bowel complaints it has been preferred especially in colica pictorum - To remove foreign articles from the stomach (except copper on which it acts) it is well adapted as a general rule however I give no M<sup>d</sup> in these cases the article by this means become enveloped in the mucus of the stomach and intestines and is prevented from irritating them. In colic and Dysentery the stomach becomes tranquil castor oil is proper.







In Cardialgia verminosa it has been recommended  
 It is not so valuable an article in those cases where  
 delecting remedies are required. It is 3j a  
 Teaspoonfull may be given to a child directly after  
 birth a desert Spoonful to a child 3 or 4 Months to  
 a Table spoonfull to a child of 6 years &c. The  
 cold pressed oil is less nauseous than that prepared  
 by heat on account that the nature of the oil  
 the vessel out of which it is to be taken should be  
 wet to prevent its sticking to it. It is generally but  
 in some cases given improperly given in Brandy  
 I generally give it in Coffee which effectually covers  
 its taste. It is sometimes given combined with mucilage

Mixed in Data  
 Mortar

℞ Castor Oil 3ij  
 White sugar  
 Gum Arabic aa 3ij  
 Ol Anis-Drops VI  
 Ague — 3VI

This mixture I have seldom employ'd from the small-  
 ness of the dose and from its not being less nauseous than  
 the simple oil. I'd Castor Oil even when rancid though  
 less active does not grip more than the recent oil.  
 In this opinion I find however I am opposed by the  
 the French Writers they say it purges less but grips  
 more they direct it to be washed in cold water before  
 being used. Pleum blum has been recommended by  
 Dr Chapman who is much pleas'd with its effects







It is much less active than the castor oil and must be given in larger doses and being one of the Nutrientia no doubt a considerable part will be digested In several of the Bowel complaints of children as in Cholera I have used Fresh butter melted especially in clysters I think it about as good as flaxseed Tea, Barley Water &c

Senna Cassia - Africa and Egypt the active properties are extracted alike by water & Alcohol. The Infusion is the Preparation most generally employment. The senna is so active a purge as to be ranked by Murray & Cullen among the Acrisora. The Mac is a very popular one not withstanding the largeness of the dose nauseous taste & griping qualities to obviate the latter is generally given combined with milder carminatives &c It is however a very certain purge and in cases of hernia I have known it purge when others have failed. The senna Tea is made by infusing

Dose a wine glass full every 2 hours untill it operates

℞ Senna ℥ss  
Aqua Bul ℥ij  
Sweeten ~~with~~

Cremor Tart. is a very good addition to the infusion in the quantity of ℥j it is very often prescrib'd to accelerate the operation of Cathartics especially cal. Among the different Officinale preparations of the Senna the only two deserve to be retained







Are

37<sup>th</sup>

Compound Tincture of Gal 35

℞ Senna ——— 3ij  
Galap ——— 3i  
Tennel & Coriander aa 3ss  
Alcohol ——— 6ijss  
Aqua ——— 6ijss

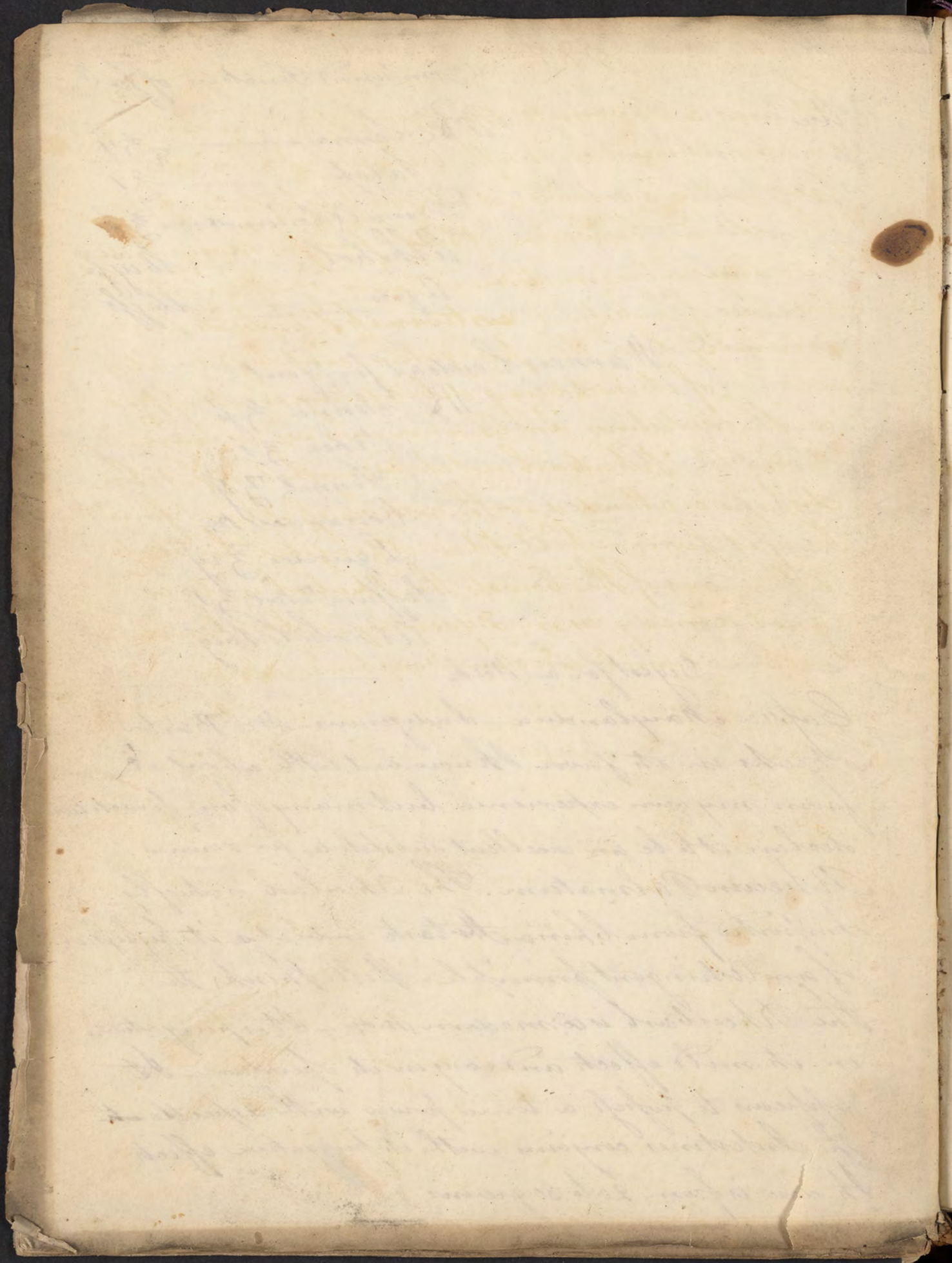
Warner's Cordial for Gout

℞ Senna 3ss  
Rhei 3i  
Tennel 3ij  
Coriander ss  
Licuorice 3ij  
Saffron Petal 3i  
Alcohol 6ij

Digest for a Week

Cassia Marylandica - Indigenous - Dr. Barton speaks in its favor I know but little about it from my own experience but many of our practitioners declare it to be an excellent substitute for senna Rheum Palmatum. The Rheubarb is chiefly Imported from China. Its taste indicates its possession of an Astringent principle - Will thinks the Rheubarb is a modern drug - It is purgative in its mild effects and easy in its operation - It appears to possess a tonic power with respect to the Intestines conjoined with its purgative effects Its dose is from 20 to 30 grains







It was a Savonite *M<sup>de</sup>* of Dr. Burton in combination with Calomel I have also frequently employd it in the proportion of 10gr of each and conceive it will purge more under the same circumstances than 10gr of Cal et 10 grains. In cases of habitual *costiveness* Rhubarb has generally been the purgative employd on its account of its not being debilitating in its effects on the Intestines. In Chronic cases we occasionally direct the Rhubarb notched with benefit. In Dyspepsia attended with costiveness I have found benefit from a pill Rh<sup>i</sup> et Zingiber. In Acute affections of the bowels the Rhubarb is also a good remedy as in Dysentery in combination with Calomel and in Diarrhoea also.

The Astringent quality is supposed to act after the purging is over. Cullen hence thinks it improper in Dysentery but this is a refinement which experience does not establish. Fordyce declares it to be a narcotic and to induce sleep but this latter effect is to be explained on different principles. In the Gout the Rhubarb is a very valuable purge in the form of warmers cordial. In Jaundice Cal et Rhubarb has formed a valuable remedy. In the diseases of Rhubarb is a *M<sup>de</sup>* of great value and in the custom of giving it combined with magnesia.







Two Teaspoonfuls to be given to a child until it is perceived in the stool

℞ Pulv. Rhēi	3℥
Calcined magnesia	3j
℞ Anis	℥ ii
Aqua	℥ ij

I have employ'd it in summer complaints of Children adults with benefit especially in Cholera where it with a diet of green root Barley Water &c with a drink of lime water and mucilage of Gum arabac has entirely cur'd the disease. It has been recommended as an Anthelmintic but it acts here merely as a Cathartic Spiced Rhubarb

℞ Rhubarb	
Mace	
Cinnamon	3j
Water	℥ ij

Boil it to a half then add sugar and a little Brandy - I disapprove of adding much Brandy it should always be made fresh - Rhubarb Tea

Boil it to 1/3 Dose a Teaspoonfull in 4 hours	℞ Rhubarb	3j
	Fennel seed	3j
	Water	℥ ij

This is administered to children with weak bowels with benefit especially in colic of the first month. Opium is afterwards necessary. Roasted Rhubarb - heat the powdered Rhubarb in a Spoon until it runs into a mass



*[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page. The text is illegible due to fading and orientation.]*



brown and friable. In this form it is supposed to be best adapted to dysentery and to Gripes less the application of Rhubarb to ulcers & warts &c. is recommended by ~~an~~ <sup>Dr</sup> ~~and~~ <sup>and</sup> ~~them~~ <sup>them</sup>. In some cases it will be beneficial especially in that form of ulcers between the healthy & indolent. *Convolvulus Jalap* The Jalap is a native of South America. The best root is the most black compact and inflammable. It is sometimes adulterated with white Bryony which may be detected by the light colour of the latter. Its active matter is resinous. It is an active and drastic purgative and like most resins when not levigated is very apt to gripe its dose is ʒss it is seldom given by itself In combination with an equal quantity of crem. tart. it is an excellent purg in habitual costiveness & hip disease and where ever long continued purging is required.

Dose a Table spoonfull of Jalap  
every 2 hours ————— Crem Tart aa ʒss  
Ol Anis. — ʒss

It forms an excellent purge combined with calomel in Bilious diseases Cullen considers this combined the best Hydragogue and Anthelmintic purge. The resin of Jalap has been too much neglected. I have employ'd it in the following form advantageously







Misce et fiat in  
Pilulae LXIV

$\mathcal{R}$  Pulo-fulap gr 64  
Ruci — gr 64  
Resin gal — gr 32  
Al Menthe gr —

As a Laxative one in the Evening as a  
cathartic take 2 every 2 hours until they operate  
Aloe, Perfoliata — Inspisated Juice it is a  
Gum Resin there are three kinds the Socotrine  
Barbadoensis Hepatic and the calcareine the  
Socotrine is the best The Aloe has been in use  
from the earliest ages of Man. It acts principally  
upon the large Intestines and produces some effects  
by augmenting their peristaltic motion. It  
has been said to produce Hemorrhoids Dr. Cullen  
has endeavored to remove this imputation on its  
character. I have found other cathartics pro-  
duce the same effect 2 gr will act as a laxative  
a watery stool can scarcely be produced by  
less than 2j — and then it will occasion griping  
Gamboge — It is imported from the East Indies  
It acts both as an Emetic and cathartic it is one  
of the most active & drastic purges we know of  
In cases of Venia it has been much used the dose  
is from 2 to 5 gr and with 10 of calomel is an  
excellent cathartic in all Biliary complaints  
It may be given in larger doses as 8 gr see Cullen







Professor Murry gives us the detail of a number of Experiments by different physicians with a view to obviate the Acrid Properties of the *Mae* but without success The Article has been used in Dropsy but I recommend it to you as a purge only in combination with calomel

*Convulvulus Scammonia*. This *Mae* is brought to us from the Mediterranean its action properties resides in a Gum Resin the *Clepsy* Scammony is the best Cullen thinks it a good purge it was formerly much employed But it is certainly a harsh and powerful remedy From the uncertainty dose a given quantity not procuring a given result it should not be employed alone. Cullen's Only objection to it was the difficulty of getting it pure Its dose is from 2 to 10 gr.

*Eucumis Lobocynthus* It grows in Turkey I place it on the list only because I found it then I have never used it Should I ever use it it would only be in cases of mania as in this disease from torpor of Bowels the most powerful *Mae* are called for In doses of a few grains it occasions pain Bloody stools &c Its dose from 2 to 6 gr

*Helleborus Niger*. This is one of the oldest *Mae* upon our list it is frequently called *Melampodium*







from the first person who employ'd it. It was  
 anciently much employ'd but it now gives way  
 to milder but at the same time as effective Cathartics.  
 It has been employ'd extensively in Mania but  
 there is no reason to suppose that it has any specific  
 effect in this disease. In Amenorrhoea Dr. Mead  
 recommends the Tincture and it has been us'd as  
 an emenagogue with benefit.

*Veratrum Album*. White Hellebore this *med.* from  
 the harshness of its operation has been laid aside  
 it sometimes occasions deleterious effects as Convulsions &c.

*Cucumis Aqueus* or the mimosa *Claterrum*  
 is the most violent cathartic of all we have men-  
 tion'd in small doses as a  $\frac{1}{2}$  gr every hour or two  
 it purges violently. It occasions more pain during  
 its operation than any other purge. Dr. Ferrius has  
 lately recommended the *med.* in Hydrothorax.  
 With this Article I close my account of the Veget.  
 Cathartics many more might be added but after  
 much reflection I do not find them entitled  
 to a place while we have so many superior Articles.

Of the Mineral Cathartics - Calomel - Perhaps  
 the whole class of Cathartics contains no one article  
 so much employ'd as this. There are a few cases in  
 which it is contraindicated - Dose 10 gr. There is  
 however a Diversity in the effects of the *med.*







not yet explained thus we hear of small doses  
as ʒ gr operating violently while we at other times  
give as great a quantity as ʒss without any incon-  
venience Dr. May performed on himself an experim-  
ent to ascertain the greatest quantity of calomel that  
could be taken with safety and the smallest that  
would purge, he took at one 3 gr at another 80 gr  
and no more violent effects were produced by the  
80 gr than by the 3 gr Calomel as a purge operates  
by increasing the secretions poured into the intestines  
given alone it certainly nauseates and produces more  
Irritation than any other article now employed  
In some constitutions Col from an idiosyncrasy  
produces syncope or even of the Bowels and in  
~~any~~ others a violent salivation. Taken at Bedtime  
the calomel remains in the bowels all night &  
operates in the morning the calomel is well  
adapted to bilious diseases it is generally combined  
with Cal- or Rhubarb in the proportion of 10 & 10  
it is also sometimes given with Nitre in small doses

℞ Cal ————— gr 8  
Mise at first Pulv. Nitre ————— ʒj  
No 8 Tart Ematic gr 2

There is no more so well adapted to infants & com-  
It is best to give on a little Moleasses or for older  
children sherid or bread and Butter There  
is scarcely a disease incident to children in which  
it is not proper







But it is very unpopular among persons out of the profession. It should not be repeated frequently but at short intervals to children as it may occasion Ptyalism and a dangerous circumstance in them. Dose for a child 6 months old (and I seldom give it earlier) 2 gr to be followed speedily if it does not operate, by a desert spoonfull of castor oil or a repetition of the dose for a child 1 year old 3 gr - 2 yrs 5 gr. However desirous I may be to make you bold I am desirous to warn you from becoming rash practitioners. Do not prescribe calomel in every trifling case in children castor oil & Magnesia are better adapted to commence several other preparations besides calomel are cathartic but are not used to meet that indication Sulphur works in activity with the laxatives it has long been employed even from the earliest Greeks in the dose from 1 to 23 it is gently laxative it is supposed to act more on the small than large Intestines and by increasing the peristaltic motions and hence is well adapted to costiveness from sluggishness of the bowels In itch and other diseases of the skin of a similar nature the sulphur is much used An Linca Capitis Dr Chapman has employed it but it fails with me I think the better remedy of Dr. Physick Superior IP of Fresh Butter saturated with Dry muriate of soda







In Gout and Rheumatism sulphur is less important than the other cathartics. In dysentery it has been employed in the continent but is not adapted to the dysentery of America. In remittent and intermittent fever (mild cases)  $\mathfrak{zj}$  of sulphur 2 or 3 times per day I have found beneficial. Gaeinger recommends it in Brandy but this is improper. Sulphur has been supposed to remove even a roll of Brimstone in the hands spasm of the muscles by the vulga but it is perfectly inert. Sulphur and cream of Tart is a very popular ~~med.~~ much employed in the Springs country but all ~~med.~~ are improper in health. Magnesia is a laxative of much value. The pure and sub carbonate of the shops differ so little that they may be employed indiscriminately except in cases of excessive flatulency. When administered alone the Magnesia is a mild laxative by combination it becomes increased in power its most important quality is that of relieving acidity of the stomach hence it is used in Dyspepsia Gout &c.

The Neutral Salts have generally been placed between the Laxative and cathartics purgatives but some of them are among our mildest whilst some are ranked among our strongest cathartics. They increase the secretion poured into the Intestines and by thus emptying the vessels they form an important <sup>article</sup> in the list of Antiphlogistic remedies.







Of the Saline Cathartics Sulphas Soda or Sal Glauber is the most important it is mild in small doses its activity being increased by increasing the dose The medium dose is  $\frac{3j}$  For a Child of 4 or 5 yrs  $\frac{3ss}$  The water of crystallization forming near a half of the crystallization of salt we are to be aware of giving the same quantity of the efflorescent salt if the dose is half the quantity Lemon juice, vinegar, cream Tart &c have been used to disguise the taste The seltzer or Soda Water of the shops is well adapted for this purpose In febrile diseases the following forms are excellent prescriptions

Misce et fiat Pulv.  $\frac{3j$  Sulphas Soda -  $\frac{3j$   
 No. VIII. Capist Part Linimentum  $\frac{3j$   
 Unam omnia secunda hora

The Glauber Salts when exhibited as a Cathartic or laxative should always be dissolved in hot water

Epsom Salt or Sulphas Magnesia is nearly allied to the foregoing in its properties it has no advantages over it I prefer the former The ~~dose~~ diseases that it is employed in and manner of administering it are the same Both these salts form an excellent addition to Calomel or any of the active cathartics when they do speedily operate - Rochelle Salt Tartar of potasse et Sodae this is not so nauseous as the former  $\frac{3j}$



My dear Sir  
I have the honor to acknowledge the receipt of your letter of the 14th inst. in relation to the matter of the  
the same being enclosed by the same conveyance. I am  
informed that the same is now in the hands of the  
proper authorities for their consideration. I am  
sensible of the importance of the matter and  
will endeavor to expedite the same as far as  
possible. I am, Sir, very respectfully,  
Your obedient servant,  
J. M. Smith



Cremor Tartar Super Tartate of Potasse  
 this is by no means so innocuous as any of the former  
 and with sugar and water forms a very agreeable beverage  
 which may be drank to work off other cathartics. The  
 common mode of exhibiting it is in Molasses in doses of  
 ʒij every 2 hours untill it operates as it is apt to in-  
 duce flatulency it is improper in gout &c. But in  
 Dr <sup>Dr</sup> acute diseases of children &c it is a very good med<sup>ic</sup>  
 Soluble Tartar Tartate of Potasse is both cathartic  
 and diuretic it is mild in its operation Dose ʒij to ʒj  
 Phosphate of Soda this med<sup>ic</sup> acts in the dose of ʒj it is  
 not so cooling as the other salt, and causes thirst &c. These saline  
 cathartics should never be given in soups <sup>as</sup> is the custom in Europe  
 especially in acute diseases for we by this means convey  
 nourishment into the system I have now finished the list  
 of cathartics and do wish to add another to it unless it has prop-  
 ties superior to those which now belong to it.

On the combination of Medicines. The  
 most ancient recipes on record contain a surage of useless  
 articles which dilute the action properties of the principal  
 ingredient - A modern Physician who being asked by Dr. Boerhaave  
 why he gave so many articles at a time replied that the disease  
 might select the one best adapted to it. Modern Chemistry has  
 so completely revolutionized M<sup>d</sup> as in a great measure to overcome  
 the prejudices of complicating remedies. The too great simplicity  
 of prescriptions is equally an error all med<sup>ic</sup> of the same class  
 have not the same effect & by combining them we obtain the virtue  
 of two or more thus if we wish to remove acidity & at the same







time actively to move the Bowels we would combine with some of the active Cathartics as the Rhubarb &c Our experience on this proves 1<sup>st</sup> the Absurdity of swelling our prescriptions with a number of heterogeneous Articles & 2<sup>d</sup> the propriety of combining such articles as may tend to aid or correct the action of each other — Of Enemata the rectum like other hollow muscles act when distended & when it is over the action is continued by sympathy through the large Intestines and probably the small there are many cases in which injections are superfluous the continent they are employed generally to obviate costiveness tepid water and sometimes and sometimes cold water are the only injections and but there is an objection to Enemata as correctants of costiveness which is that after sometime the rectum being use to them will contract on the Enema being administered if costiveness be only occasional the same objection will not hold —

*Cochlea*

{ *Murias Soda*  
*Molasses*  
*Oleum or hog lard* a spoonful  
*To lbj or jss℥*

Forms one of the best injections we can employ Enemata is and for the purpose of expediting the action of cathartics & it has been supposed that decoctions of purging herbs will per injections produce this specific effect but they only act in proportion to their stimulating effects — In *Mollus* and *Hernia* the Tobacco injections is generally employed

{ *℞ Nic Tobac* — *3j*  
*Aqua Bull* *℥j*

Inject  $\frac{1}{2}$  and the residue in two hours afterward







Diuretic Medicines, are such articles as increase the secretions of urine. This may be effected by either augmenting the quantity of fluids in the blood or by stimulating the kidneys. There is no means of producing diuresis so ~~so~~ certain as by drinking copiously and where it can be resorted to there is none so safe. There are many diseases in which diuretics are prescribed to carry off certain fluids effused from the system as in dropsy and here it has been supposed improper to take in fluids by the stomach. The Older Physicians in these cases directed entire abstinence from drinks. But Dr. Cullen and the latter physicians are of a different opinion and we even find it a custom with some to attempt the cure of Dropsy merely by drinking. The proper practice here as in every other case will be found between the these opposite opinions. By giving too much drink we fill the Blood vessels increase the secretion of the urine, sweat &c. What security have we that the serous secretions are not increased also. There is great prudence and sense in the remark of Dr. Cullen that where the water taken into is found to increase the urine beyond the Quantity of water taken in the practice may probably be continued with great advantage but not otherwise.







During the reign of the Humoral pathology  
Diuretics were supposed to act by evacuating vitious  
matter from the Blood That the blood is not  
more acid at one time than another I am  
not at all willing to allow many facts prove  
that it is a fact of importance to know that  
diuretics act so that the flow of urine shall be  
in <sup>an</sup> inverse ratio to the cutaneous perspiration  
hence the application of cold to the skin or to the  
feet has been resorted to to produce diuresis  
I believe these however to act more upon the  
muscular fibres of the bladder than upon the  
perspiration I infer this from the fact that the  
application produces its effects too prompt to act  
upon the perspiratory secretions and determine  
the fluids to the kidneys. The consequences resul-  
ting from diuretics are a disturbance of the  
Balance of the Circulation an increased ab-  
sorption and a decreased serosity of the blood  
The time necessary for a diuretic to pass the kidney  
perhaps not uniform. Whom on examining the  
the urine after taking the Rhubarb found that  
in 17 minutes the urine was tinged There have  
existed disputes whether diuretics produce their  
effects by being absorbed by acting on the stomach  
and sympathetically on the kidneys or are







convey'd to them by a direct conveyance. In Diabetes there is more urine discharg'd than there is ~~the~~ matter taken into the system and Parr relates a case where no urine was evacuated for a considerable time. There is a fact that many substances taken into the stomach produce a speedy discharge of urine and in some cases the odour and colour of certain articles are Detected in the urine. These facts have occasion'd a doubt whether there be not another <sup>that</sup> ~~sent~~ <sup>of the blood</sup> to the bladder than by the circulation. Haller relates several cases that would lead us to believe it - Darwin also relates several cases which would apparently lead to the same conclusion - I saw a case where one of the kidneys was entirely destroy'd by suppuration and the other very much diseas'd and yet the patient evacuated urine. Some Anatomists experiments on dogs &c which go far to prove the existence of some other communication besides that of circulation between the stomach & Bladder he at first supposed this medium of communication to be the spleen but he afterwards rejected this opinion. Darwin supposed all the facts before explain'd mentioned to be explain'd upon the supposition of regurgitation of the contents of the Absorbents. The arguments Salbidge against







such an opinion are 1<sup>st</sup> That no urine is to be  
 found in the Absorbents 2<sup>d</sup> That the urine is a  
 Lignor sui generis and essentially different from  
 the contents of the Lymphatic system 3<sup>d</sup> The valves  
 of the absorbents would effectually prevent any  
 such regurgitation Darwin has attempted to over-  
 come this last objection misquoting Mr. Newton's book on  
 the lymphatics of fishes. Lastly I would urge that no  
 Anastomosis has ever been discovered between the  
 Absorbents of the stomach and bladder and even  
 would wish to prove by again misquoting Newton  
 The subject is still undecided and I shall now  
 merely throw out one or two observations on the subject  
 1<sup>st</sup> It is certain that animals have been destroyed by the  
 destruction of the Ureters 2<sup>d</sup> If the thoracic duct  
 be tied and colouring matter yet finds its way into  
 the urine there must be a passage as yet undiscovered  
 to the bladder. 3<sup>d</sup> No Vessels have been discovered by anat-  
 omists opening into the bladder but the Ureters  
 4<sup>th</sup> Darwin's Theory is utterly incapable of explain-  
 ing the fact - 5<sup>th</sup> After all I have <sup>many</sup> doubts  
 whether or not there be any communication than  
 by the Circulation. what proof have we that  
 there is no other communication between the  
 Absorbents & the Bloodvessels than those now  
 known to the Anatomists







Diuretics are an ancient class of remedies and are now employed in a variety of morbid affections. In dropsy their action is less certain than in any other diseases. If Dropsy depended merely on a defect of absorption our prescriptions might be more effectual in curing it but it frequently depends upon disorganization of structure in the spleen &c. The manner in which diuretics act in Dropsy is by the copious discharge of urine emptying the vessels which induces an increase of absorption to refill them. Andrye declares it to be very difficult to obtain a discharge of <sup>viscous</sup> fluids by diuretics alone he therefore directs a combination of them and with purgatives. In most of the Febrile diseases diuretics are employed ~~and~~ with advantage. In several of the pulmonary complaints as in consumption & Asthma they have been employed. In local affections of the kidneys and bladder we employ diuretics with advantage. In the primary stage of Gonorrhoea they have been found beneficial —

#### Of Particular Diuretics

Most of the Essential salts act upon the kidneys but many have other properties superadded which prevent their being employed with benefit as diuretics most of the Acids are diuretic and two of the Alkalies —



...are in an ancient shop of confectioners and  
are very much in a variety of sorts of articles  
in which their country is less content than in  
any other town of supply of delicacies and  
in a shop of chocolate one might find a receipt  
to make excellent in any it but of quantity  
depends upon the composition of chocolate in  
the recipe. At the same time in which minutes  
and a day is by the above exchange of some  
emptying the bottle which is done in a glass  
of chocolate with the other various delicacies  
to be very difficult to obtain a chocolate of others  
kind of chocolate which is the best and  
combination of them with sugar and milk  
of the best of various kinds and quantities  
with advantage in some of the best  
very agreeable to in confectioners & others  
there are been employed in local assortment  
the sugar and chocolate in empty chocolate with  
advantage in the various sorts of food and  
they have been found to be  
of the best of the best  
but many have the preference of various kinds  
because this is a goodly with sugar or  
chocolate most of the best and sweetest  
in the world



The vegetable alkali has long been employ'd as a diuretic the dose of the sub Carb. Potassa as a diuretic is 20 to 30 grains but after being continued some time it occasions affection of the stomach. The soda is never I believe employ'd merely as a diuretic whether the Alkalies are of themselves diuretic or are only rendered so by the union of the acid they meet with in the prima Viæ is not known Pringle was in the custom of combining in certain cases of Dropsy accompanied with a weakness of the Alkalies with Bitters & C. Dr. Murry retains in his list of diuretics the Acetate Potass. but is so uncertain in its effects that I do not wish it to be retained.

Nitre is one of our best diuretics. I am surprised that Murry should declare its powers so trifling as to render it of little use in Dropsy. It is now much used the proper dose is 8 to 10 grains every 2 or 3 hours the dose may be increased as the stomach becomes accustomed to it profuse diuresis can seldom be produced untill the dose amount to 3 ij or IV in the 24 hours. The Nitre forms the Basis of many powders employ'd in inflammatory diseases Dr. Rush's powder is a very excellent combination of this kind I direct it thus

Missa-et fiat pulv  
℞. viij

℞	Calomel	—	grs VIII
	Tart Emet.	—	gr j
	Nitre	—	3 j







Dr. Physick is in the custom of substituting  
the Nitre for sulph Potash in the Dover powder  
It is a common practice to exhibit Nitre in  
Dropsy in solution in the quantity of 3j to ℥ij  
of water each spoonful of which will contain 7 or  
8 grains of Nitre. The practice is a very popular  
one I think it would be highly improper to  
reject this article from among the lists of diuretics  
Crema Tart Super Tart Potash This is the  
only saline Diuretic which Dr. Chapman  
thought proper to retain Dr. Ferriar states that  
33 out of 46 cases of Dropsy were cured by it as it  
is cathartic it is indicated and is beneficial in  
Dropsy accompanied with Febrile disease it  
produces the best effect when it acts by inducing  
profuse watery stools and a discharge by the kidneys  
The most usual way is to give it diffused in a little  
water or in combination with syrup and in such  
doses as to occasion catharsis as I believe it difficult  
to administer the Muc so as not to purge when this  
latter is not indicated I never employ it It is said  
to fail when other diuretics have succeeded but this  
is true of all The Sol Tar - Tartrate of Potash  
in small doses Dr. Physick considers the best  
and safest diuretic dose 3j to 3ij every 2 hours  
The Soluble Tar is formed by joining 1 part  
of Potash and 2 parts of Cream Tar -



The purpose of this paper is to present a summary of the results of the experiments conducted in the laboratory of the University of California, Berkeley, during the past year. The experiments were designed to determine the effect of temperature on the rate of reaction between hydrogen peroxide and potassium iodide in the presence of various catalysts. The results show that the rate of reaction increases with increasing temperature, and that the presence of certain catalysts, such as potassium bromide and potassium ferricyanide, greatly accelerates the reaction. The effect of the concentration of the reactants on the rate of reaction was also studied, and it was found that the rate increases with increasing concentration of both hydrogen peroxide and potassium iodide. The results of these experiments are summarized in the following table:

Temperature (°C)	Rate of Reaction (relative units)
10	1.0
20	2.5
30	5.0
40	10.0
50	20.0

The following table shows the effect of the concentration of the reactants on the rate of reaction:

[H <sub>2</sub> O <sub>2</sub> ] (M)	[KI] (M)	Rate of Reaction (relative units)
0.1	0.1	1.0
0.2	0.1	2.0
0.1	0.2	2.0
0.2	0.2	4.0

The results of these experiments are in good agreement with the theoretical predictions based on the law of mass action. The experiments also demonstrate the importance of the choice of catalyst in determining the rate of a chemical reaction. The work described in this paper was supported by a grant from the National Science Foundation.



Dulcified Spirit of Nitric. This Article should  
 not be long kept as it is apt to be decomposed and  
 the Nitric acid is reformed By saturating the  
 acid with lime water it is again rendered fit  
 for use. The spirit of Nitric is evidently stim-  
 ulating and hence improper in acute cases  
 it is admirably adapted to those in which debility  
 has supervened. The other evacuation. Combined  
 with Vini Antimonii it forms an excellent  
 diuretic and Diaphoretic especially in cases of  
 Children Dose for an Adult  
 Of the Nitric spirit 20 Drops [TR Spirit Nit 9 to 30  
 is a Diaphoretic - 30 a Diuretic Vini Ant 9 to 30  
 In certain Autumnal diseases with pain in  
 the Back &c and with Billious symptoms  
 I have found it good as an anodyne after *Digitalis*.  
 Dr. Barton is of opinion  
 that the title purpurascens is incorrect the flowers  
 not always exhibiting that colour he suggests  
 the idea of calling it the *Digitalis officinalis*.  
 The plant was described as early as the year 1542  
 The leaves of the plant to obtain it in the greatest  
 perfection should be gathered when the plant  
 is in flower rejecting the ribs and fibrous part  
 It is without doubt the most powerful diuretic  
 we know it is also powerfully Narcotic







No medicine lowers the pulse so powerfully as this this Dr. Moore experimented on the article and found that 1½ gr accelerated the Circulation in ten minutes increasing the pulse from 72 to 73. A similar effect was produced by 3 gr In very large doses no perception mark its effects they are in general Vertigo, Nausea and most of the symptoms ensuing from narcotic M<sup>or</sup>. There is one quality of the M<sup>or</sup> which requires attention. I allude to the circumstances that the M<sup>or</sup> may be given for sometime without producing its effects when suddenly they will be produced to a dangerous extent. This is not however a very frequent occurrence. The effects of Digitalis on the pulse varies with the situation of the Body. In its depressing effects it resembles very much the Tobacco and the Stramonium. I have generally given the Digitalis in combination with Niter —

℞	Niter	gr X
℞	Digitalis	gr ij

The safest dose is to begin with is ½ gr. The form of Pill I do not approve of when infusion is preferred the following is the best Recipe

℞	Fol Digitalis	℥ss
℞	Aquila	℥viii

Coque — and after

℥j is evaporated and alcohol to make up the hys dose a spoonfull every 2 hours



The Committee have the honor to acknowledge the receipt of your letter of the 15th inst. in relation to the proposed amendment to the Constitution, and to inform you that the same has been forwarded to the proper authorities for their consideration. The Committee also have the honor to inform you that the same has been forwarded to the proper authorities for their consideration. The Committee also have the honor to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,  
Your obedient servant,  
J. M. Smith  
Secretary



The Simple Edinburgh dispensatory is made by adding Sol Digitalis  $\text{zj}$  to  $\text{zviij}$  of Alcohol Davison made his Saturated Simple from  $\text{zij}$  of the Digitalis to  $\text{viij}$  of Alcohol Dose from 10 to 15 Drops the Decoctions or extract I have never given It is very necessary to watch the effects of this Med. after using the dose you commence with two or three days it may be increased  $\frac{1}{4}$  of a grain when it purges Laud<sup>m</sup> may be given when it produces its narcotic effects the usual remedies of narcotic poisoning is to be had recourse to There is great diversity of opinions with respect to digitalis In 1775 Dr. Withering called the attention of Practitioners to the Med. he found it powerfully diuretic which he found it frequently he does not conceive to depend upon Nausea and Vomiting on the contrary he found these diminish its effects and the same is true if it purges Dr. Davison used the Digitalis in Dropsy from debauchery in combination with bark &c and Ferriar found benefit from the remedy in Dropsy There is now scarce a Practitioner that does not use it and there is no variety of Dropsy in which it is not proper In Hydrothorax I have known it beneficial but it frequently fails I prefer Scilla and squills In every case of Dropsy the condition of the system is to be attended to



The first thing I observed in passing  
along the banks of the river  
was a great number of small  
islands of alluvial soil  
which were separated from the  
main banks by narrow channels  
of water. The soil of these  
islands was very fertile and  
the vegetation was very  
thick. The water of the  
river was very clear and  
the current was very strong.  
The banks of the river were  
very high and the soil was  
very fertile. The vegetation  
was very thick and the  
water was very clear. The  
current was very strong and  
the banks were very high.



If Fever be present &c &c is to be resorted too the experience of my Medical friends is against giving the Digitalis while the pulse is tense See Withering who says the stroke of the Palsy or stone in the Bladder should not prevent its use It is said to be of benefit in these Anasarous swellings following febrile diseases as scarlatina I have however generally treated in this disease much less dangerous by the crystal of Tart- The following aphorisms from Withering appear to be true

- 1<sup>st</sup> Digitalis will not always act as a diaphoretic
- 2<sup>d</sup> It does so more frequently than any other Antidote
- 3<sup>d</sup> It will frequently produce this effect after every other has failed. Besides Dropsy there are other diseases in which Digitalis has been employed it has been employed to diminish the force of the circulation especially by Curme &c. bleeding has been considered as an unnatural remedy and our M<sup>d</sup> has been looked upto as a means by which it may be superceded In active hemorrhagy the Digitalis has been extolled but in the disease it is very difficult to ascertain the effects of M<sup>d</sup> the disease frequently stopping of itself. That digitalis is not an incotius remedy I am assured but that it is an improper remedy one in active hemorrhagy I am certain - It is the only remedy Digitalis does not always certainly diminish







The action of the Heart and Arteries and hence we cannot put Confidence in it & can in which I conceive it proper is where it has been used to a considerable extent the febrile symptoms being diminishing to prevent its return it may be used. Dr. Chapman has seen cases of uterine hemorrhage which have been increased by the digitalis these cases he very properly observes require Med. which diminishes the force of the circulation and at the same time constricts the gigantic vessels of the uterus. The inflammatory and febrile diseases the digitalis is laid aside. In diseases of the Thorax it has been extensively prescribed than in any other diseases. In Spasmodic Asthma and whenever this disease is accompanied with oedematous effusions and indicates its connections with Dropsical effusion the Foxglove is proper. Dewees was in the habit of using it in Asthma unconnected with effusion a prescription by Dr. Physick In one case I saw a cure effected by it.

Dose gutta 1000  $\overline{\text{R}}$  Tinc Balbarnavel or Tolu 3j  
40 ter die } Lig Lac. 3j  
Tinc Digitalis 3j

In Pulmonary consumption the employment of our Med. has excited great attention by some it was supposed to be a perfect specific & if you believe the report of Practitioners for some years past you would think one the



The nature of the heart and its action  
has been so much discussed in the  
past, that it is not necessary to  
repeat what has been said. It is  
enough to say that the heart is  
a muscular organ, and that its  
action is to pump the blood  
through the vessels of the body.  
The heart is situated in the  
middle of the chest, and is  
about the size of a fist. It is  
divided into four chambers, two  
upper and two lower. The upper  
chambers are called the  
atria, and the lower chambers  
are called the ventricles. The  
atria receive the blood from  
the veins, and the ventricles  
pump it out to the arteries.  
The heart is surrounded by a  
double layer of pericardium,  
which is filled with a fluid  
called pericardial fluid. This  
fluid acts as a lubricant, and  
allows the heart to move  
freely within the chest cavity.  
The heart is also supplied with  
its own blood supply, which  
comes from the coronary  
arteries. These arteries branch  
out from the base of the heart,  
and supply the heart muscle  
with oxygen and nutrients.  
The heart is a very important  
organ, and its proper function  
is essential for life. Any  
disease of the heart can be  
very dangerous, and can lead  
to death. It is therefore  
important to take care of the  
heart, and to seek medical  
attention if there are any  
symptoms of heart disease.



*Opprobria Medicorum* was now removed  
Shinglale, Ballie, Drake &c. speak in its favor  
one of these has had much experience with  
the Article has related a number of cases from  
the result of which I must acknowledge that  
many Pseudo Phthisical cases have been cured  
and others relieved see Beddoes who speaks of  
the Article in the highest enthusiasm. Our  
practitioners have used the *M.D.* extensively but  
their experience is not so much in its favor  
That the reports of the European practitioners  
are erroneous is a fact from the number of deaths  
in Europe not being decreased. Consumption  
has been defined a disease of the Lungs accompanied  
with a great Emaciation cough difficulty of breathing  
Hæmorrhages, hectic fever & sometimes a purulent  
expectoration. Chronic cases of catarrh and  
Pneumonia are by no means to be considered as  
consumption; and these latter have been the cases  
said to be Consumption cured by *Digitalis*. The  
change of Temperature of the weather in our  
country produces frequent Inflammation which  
are not unfrequently followed by disease of the  
Lungs difficult to be distinguished from con-  
sumption but which finally are recovered from  
The Idea of the difficulty of healing ulcers  
in the legs from the Nature of the Structure







and constant motion of these parts is by no means correct for we have seen extensive accidental injuries of the lungs and notwithstanding the constant ingress and egress of air we have also seen cases of suppuration of the lungs entirely recovered from the disease of the lungs in Consumption is a morbid action differing from every other diseased action. The Primary state is that of Tubercle looking scrophulous but differing from it these Tubercles suppurate and produce ulcers which are tardy in healing. The Difficulty of curing consumption arise from this after one tubercle discharges its contents another fills & ulcerate and so on continually. It must be acknowledged that in some cases of consumption there are no Tubercles the suppuration being furnished by the air cells &c we find small vomica. The Tubicular consumption is the most frequent there is no reason to conclude with Dr. Rush that tuberculi are the termination of inflammation. I believe the symptoms of consumption to be a pure specimen of hectic fever arising from the sympathy of the system with the local irritation of the lungs I believe Spargione to be totally inefficient to effect a cure of consumption though it may palliate symptoms the pulse frequently becomes very frequent and the digits







has the effect of reducing the ~~effect~~ frequency some have thought that by reducing the pulse we may cure the disease but this idea is erroneous the effect of digitalis as a diuretic may also have some effect in relieving the thoracic affections There are many cases in which inflammation attacks the lungs & leaves most of the symptoms of consumption on its recession here Digitalis in combination with other remedies of importance I have found its good effect to be in a ratio to the degree to which it diminishes the pulse A late writer recommends 10 drops of the saturated tincture in a saline draught the dose may be gradually increased the pulse being carefully watched during different positions of the Body that if any of the bad effects of the digitalis supervene we may lay it aside It is in incipient stages of consumption that the effects of our medicine are most striking Our most recent author declares the remedy to be useless and I declare it to be improper in the latter stage Dr. Rush pronounced it a poisonous weed and Dr. Barton found no benefit from it from the above views I think the inference may be drawn that the cases said to have been cured by digitalis even merely cases of chronic catarrh and without any Tubercular disease There is one case of disease in which I think Digitalis hastens the termination. I allude to large collections of pus in the thorax. The patient lies very easy on one side but on moving to the other the bronchia becomes filled with pus. which is expectorated I conclude this article by remarking that I have found it do wonders in cases about to terminate in consumption but even here it is not to be trusted to without the assistance of bloodletting.







Digitalis has long been employ'd in epilepsy but not as  
 I have seen with any advantage. Hereditary epilepsy is in  
 my opinion incurable. Digitalis has also been employ'd to  
 effect different indications in Mania Dr. Rush mode of  
 treating this disease is the best and digitalis forms no part of  
 it In Hydrothorax Mydrocephalus digitalis has been employ'd  
 Dr. Cheymus he states us it in but few cases intows he  
 found benefit from it but as it acts differently in different  
 constitutions it must be he thinks an uncertain remedy  
 A powerful argument against its use in this disease is  
 that we have not time for its employment as it requires  
 gradually and cautiously to be increased and the disease  
 runs its course so speedily (see Cheymus). Neither Acheson or  
 Gout can conceive the mode to be proper I could swell the  
 list of disease greatly in which ~~digitalis~~ Digitalis has  
 been employ'd and recommended but I am against its em-  
 pyrical use and must warn you against paying too much  
 attention to the extravagant praises with which a new med.  
 is usher'd in Digitalis has been externally employ'd in  
 certain ulcers but I have no experience with the  
 article in this mode Nicotiana. It has been introduc'd  
 into our list of diuretics. Barton and others speaks in  
 its favor It is employ'd in Tincture & Infusion —  
 Dose from ʒi to ʒss — { ~~R~~ Tobacco ʒj  
 Ague — ʒj  
 I have no wish to see this article employ'd while we  
 have so many better diuretics.







Squills. The squill is one of the oldest diuretics Cullen thinks it has no direct action upon the kidneys but declares it to be an universal stimulus to every secretion. It operates primarily upon the arterial system by exciting the pulse but lowers it by consequent evacuating powers. The squill has been long used in dropsy & have succeeded best with it in dropsy of the chest Hydrothorax - which is ~~is~~ also the experience of my Medical friends when it is given as a diuretic it is generally in substance from 1 to 3 grains I have generally given it rubbed up with Syce which is also the direction of Desault It may be given in the form of Pill. Aromatic have been <sup>added to</sup> ~~destroy~~ its nauseous taste. I generally give 1 gr 2 or 3 times per day for the first day and the second day increase gradually to 5 gr to 2 or 3 times per day I have seldom found the stomach bear a larger dose. These are writers who recommend it in much larger doses to excite vomiting thinking it acts as a diuretic merely on that principle. Boerhaave declares that the Ind<sup>n</sup> will seldom operate without inducing nausea. Cullen Objects to such an opinion and declares the nausea only necessary to indicate that it is active I have seldom found the Ind<sup>n</sup> active without nausea being produced. It is frequently combined with Op<sup>i</sup> to prevent its purging or creating nausea. In combination with different preparations of mercury it is also given I generally employ Calomel notwithstanding Dr Cullen's objection that it is determined to the Intestines which is generally untrue. This combination forms an admirable diuretic well adapted to Dropsy accompanied. it does sometimes purge







but this can be prevented by Opium It also gently  
produces Ptyalism which is frequently a favorable  
circumstance The calomel may be given to the extent  
of  $\frac{1}{2}$  gr I recommend this combination of calomel  
and squill as a most powerful Diuretic & Balsam  
Copaiba the product of the *Copaifera officinalis* - The  
longer this Balsam is kept the more virid it grows but  
it will not become opaque without being adulterated  
like most resins it stimulates the kidneys The urine  
discharges immediately after having a peculiar  
violaceous smell The average dose is 30 drops but  
as it nauseates it is best to begin with 20 drops This  
Article is not much used in Dropsy It is most  
celebrated in Gonorrhoea and in Leucorrhoea this is  
an old Practice lately revived It is a fact well as-  
certain that Gonorrhoea will wear itself away  
and hence we should not be surprised at the variety  
of articles to have cured this disease After a consider-  
able attention has been paid to this disease I think  
the Golden Rule of attention to the state of the system  
should not be neglected, In the commencement of  
the disease there is considerable inflammation sometime  
requiring us always purging There is no doubt that  
a judicious use of Injections is of benefit in Gonorrhoea  
and I am decidedly against the promiscuous use of Balsam  
Copaiba though I have no doubt that Balsam cerly  
employ'd in combination with depleting remedies







is very beneficial it may be given mixed with Melasses or brown sugar in the dose of 30 drops 3 or 4 times per Day I believe it acts not only as a depurative but also by medicating the urine Dr. Chapman found the following formulae to obviate ~~entirely~~ the action of the stomach or bowels produced by the mace

<del>Rx</del> Balsam Copaiba	— 3℥
Spt Citre	— 3℥
Spt Lavender	— 3℥
Liq. Laud	— 3℥
Gum Arabic	— 3ij
Aqua	— 3iv

Dose on Table spoonfull 3 times per Day if however it still nauseates it should be kept a day or two on Mace has also been employed in Hemorrhoids & gleet Oil of Turpentine The common resin acts as a diuretic but the oil of Turpentine much more powerfully I do not know that it has been used in dropsy on account of its other properties It has been given in gleet in the dose of 5 to 10 drops with melasses or the yolk of an Egg I advise much larger doses. The resin rubed up with Citre or Sugar in the dose of 10 grs 3 times a day is a good remedy for gleet. Polygala Senega — It grows abundantly over the continent of America The root is the part employed — In 1739 Dr. Ferriant brought this Mace into use and recommended it as an antidote against the bite of a rattlesnake



*Wm. L. Garrison*



It is a very general stimulant I think it is a doubtful diuretic not to be confided in while we have so many better ones Millman and Perival speak in its favor in Dropsy Barton in his notes on Cullen Mat M<sup>d</sup> say that it is entitled to more attention as a diuretic than Cullen has supposed Dose from ʒi to ʒi 2 or 3 times a day of the powder not the decoction is made by boiling ʒj of the root in lbj of liquor Dose for a child a Dwart Spoonful every 2 hours The European practitioners have employed this Mac. in in febrisy from its stimulating effects I should dissent from this practice In Croup the Seneka has been highly recommended by Aretaeus & others. I think too highly it has been found most useful when it acts act as a general evacuant producing catharsis—emesis &c but it should never be preferred to Emet Tart or the lancet It has only been employed in the gout Bartons list contains many other articles which probably are diuretic under certain cases and others so inert as not to be of much importance And infusion of the roots of persula have been used to relieve swelling from blisters but I have found simple water succeed as well the Libellula Syphilitica has been found diuretic The Meloe Vesicatories Spanish Flies when the Mac. is used internally its effects on the urinary bladder are evident. The Juice of cantarides in doses from 5 to 10 drops has produced very striking diuretic effects



to a very general opinion about which to a great  
but which will not be confined in which we have so  
many different William and several of them in  
the same in saying Boston in his own and other  
not the report it is entitled to be attention as  
a minister from Boston to a supposed but  
to a few times a day of the year and not the year  
this is made by the 1/2 of the year in 1/2 of the year  
but as a child and about 1/2 of the year in 1/2 of the year  
The English minister has expressed this in a  
in many from the minister of the 1/2 of the year in 1/2 of the year  
from the minister of the 1/2 of the year in 1/2 of the year  
highly recommended by the 1/2 of the year in 1/2 of the year  
highly recommended by the 1/2 of the year in 1/2 of the year  
as a general document from the 1/2 of the year in 1/2 of the year  
emerge but to show never before in 1/2 of the year in 1/2 of the year  
or the same 1/2 of the year in 1/2 of the year in 1/2 of the year  
Boston but contain many the same which  
probably are the same in the center of the same in the  
so great as to be of great importance in the same in the  
of the report of the same in the same in the same in the  
from Boston but the same in the same in the same in the  
well the same in the same in the same in the same in the  
The same in the same in the same in the same in the same in the  
The same in the same in the same in the same in the same in the  
are constant the same in the same in the same in the same in the  
to be the same in the same in the same in the same in the same in the



In Diabetes the Muc. has also been employed it is not to be trusted as a diuretic in large doses it occasions great pain in the kidneys ulceration in the Bladder &c. The Linc is made of  $\text{R} \text{Linc } \text{zj}$

Dose from 10 to 20 gr

Alcoholly

I think the cases to which it is best adapted are those of gleet & leucorrhoea Dr. Robertson of Edinburgh has advised  $\text{ss}$  in  $\text{3VI}$  of water dec  $\text{ss}$  2 Teaspoonfull twice a day In person disposed to consumption and glandular affections he prohibits the use of the Muc. It is a dangerous Muc. in large doses Kerne & Barton have employed it in typhus fever It has also been employed in Tetanus

### Antilithics

These are such Muc. as palliate or relieve the symptoms of calculus that the medicine may be prevented the accretion of the calculus, or remedy the excreting of the urine or soften the calculus is very probable The term Lithontriptic is I believe incorrect. These symptoms from stone are such as cannot but induce Physicians to attempt their relief The older Physicians considered Calculi the effect of fatty earthy degeneration of the urine. One point appears clearly made out viz that healthy urine contains the substance from which the calculus is formed waiting only for a nucleus around which it may be formed Notwithstanding the existence of calculi







Matter in the urine there continues when calculus diathesis is present the urine containing a greater proportion and does not require a nucleus in order to form a stone. That gouty persons are subject to stone is evident but it occurs frequently where there is no gout present neither do I think the stomach to have any agency in its promotion many attempts have been made by the Chemists to discover the formation of calculi all their Labors have terminated in informing us that the calculi are formed of a variety of different materials the Labours of Willaston have fully developed the chemical composition of the calculi he classed them into divisions Brand also makes 4 classes but all this is useless in a Medical point of view. Alkalies & Acids have the effect of dissolving calculi out of the body and attempt has been made to inject them into the Bladder I made many experiments with the Gastric juice as a solvent of calculi & found it would dissolve calculi out of the body and might be injected into the Bladder but I believe that the secretions will go on as fast as the solution & large doses of alkalies &c given by the Mouth has been supposed capable of dissolving stone frequently the stone becomes encysted and no longer troublesome and the Lithon triptic has had the same stone undoubtedly have been felt in the Bladder during life but on dissection would  
could not be found







The most rational view I think of this case is that of a lithoniptic is found it will be a substance which will act by medicating the urine and thus convert it into a solvent or that may be injected into the bladder without irritating that organ. The stone is a disease attended with excruciations & rennissins. The mode for a fit of the stone are those which act on the whole system as if by Opium. But there are not what we mean by antilithics some of them act by softening the stone and the other by no apparent effects on the stone.

Of the Alkalies & the Alkaline Earths there have been long known to be capable of relieving the symptoms of stone all the varieties of calculi. Some are found capable of being dissolved out of the Body in caustic alkalis. Soda and potash administered by the mouth are found to impregnate the urine which urine has been found capable of dissolving the stone out of the Body. The chief difficulty is that the stomach and Bladder becomes so irritable that it is necessary to lay aside the Meds before it can effect the solution of the calculi. These frequently however relieve the symptoms considerable, probably by acting upon the lithic matter throughout the system or probably by dissolving the rough surface of the calculus and render it less irritating.



*[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]*



is probably by diminishing the Inflammatory diathesis by evacuation. Potash this is an ~~old~~ <sup>med</sup> in the stone it is to be given in solution 15 to 20 drops 3 or 4 times a day gradually augmented. It is customary to order great quantities of mucilaginous drinks along with the Alkaline. Now the quantity of water will do the same good as the mucilage cannot reach the kidney nor bladder in that state. Carbonate of Potash is the best adapted to relieve the symptoms of stone and agrees better with the stomach dose 5-10-20 gr 2 or 3 times per Day until the urine becomes changed with it.

Super Carbonate is still better adapted to the relief of stone. The best method of exhibiting it externally or internally is to direct Potash to be dissolved in a ~~glass~~ glass of Artificial ~~salt~~ water dose of the super carbonate ʒiij 2 or 3 times per day Soda effervesces and hence can be made into pills with soap dose ʒiij to ʒj at day or even larger quantities. Bostrich relates a case where a Lady gradually increased the dose to ʒiij a day. The serum of this Ladies blood was found upon analysis to be alkaline. It may also be given in saturated solution with carbonic acid these remedies will not dissolve the stone only relieving the symptoms. Bostrich relates a case where the alkalies were taken for a considerable time without a symptom of stone remaining. Bostrich he found







Brande relates that  $\text{Zij}$  of the Alkalies were  
 taken  $\text{Zj}$  of water and shortly after a copious  
 flow of urine was the effect containing a copious  
 precipitation of phosphate occasioned by the saturation  
 of the excess of the Phosphoric Acid. The urine also  
 in some measure removed the colour of Litmus acid  
 ened with vinegar. Soap which is commonly  
 mentioned as a lithontriptic I place among the  
 Alkalies it contains alkali. It is now seldom  
 used except as a medium to make pills. Lime  
 though sparingly is soluble in water yet this  
 solution is found to dissolve calculi out of the body  
 This is the principal ingredient in the Mstrum  
 of Mrs. Stevens sold to the British government  
 she began with Eggshells but finding them too caustic  
 she added soap &c lime water has been extensively used  
 and is found most beneficial in nephritic calculi  
 I have never known the article used in large quantities  
 perhaps never shall as the Alkalies are so much  
 better — Magnesia This article was introduced  
 by Brande and it has been very extensively employed  
 in calculus cases he believes not many capable of  
 introduction into the body so as to dissolve the stone  
 he therefore set out to discover some  $\text{M}^{\text{d}}$  to prevent  
 the formation of the stone He instituted a number  
 of comparative experiments between the Alkalies &  
 Magnesia and found the latter in Nephritic Calculi



The first of these is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The second is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The third is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The fourth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The fifth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The sixth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The seventh is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The eighth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The ninth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.  
 The tenth is the fact that the  
 water is not pure. It is not only  
 impure but it is also very hard.



and Gouty cases of most benefit. The common cases of calculi differ from these cases when there is an excess of uric acid and a discharge of red sand the latter persons are seldom found affected with <sup>stone</sup> Dr. Prichard relates that in an Hospital for gouty patients principally not one case of stone occurred. The Magnesia though proper in the latter cases is improper in pure calculus.

Acids. Carbonic This Article has been employed as a Lithontriptic Perivial and others deemed it capable of entering the urine and dissolving the stone As Quistly however detected fixed air in the urine of persons not using the carbonic acid I doubt whether the conclusion of perivial be correct But what is best of all Perivials experienced on the body has found it of benefit A lad about 16 years of age came to me with a gravelly complaint which he had had 2 or 3 years I directed him to drink seltzer water 3 or 4 times a day in 48 hours he voided 42 calculi

The Nitric and Muriatic Acids have been introduced into practice by Copeland he relates two cases in which he says the stone was dissolved A very bold Assertion The patient took in one case 30 drops of muriatic acid 3 times a day gradually increasing the dose In the second 40 drops of dilute Nitric acid were taken every 2 hours — the dose being gradually increased —







In both cases there was he says a profuse discharge of calculus sediment. When the mineral acids are employed as antilithics it is necessary to administer opium to relieve pain and the costiveness is to be obviated by occasionally purging. I think the castor oil best adapted for this purpose. Copland found spirits and water the best remedy to relieve the effects of the acid upon the stomach. The Muc I have now considered I conceive are all useful in correcting the diathesis upon which the formation of the stone depends. Among the Muc recommended for relieving the symptoms of calculi are the Astrucigents & Bitters. Physicians have not been little puzzled to explain the modes of operandi of these articles. Cullen supposes their effects to depend upon a power which he supposes these articles to possess of absorbing acids. We consider this theory visionary, & rather supposed them to act by depriving the stone of its mucus. The tonic powers of the articles have been supposed to be the means by which they do good which I conceive to be probable; notwithstanding Dr. Barton's opinion, Calculus is very generally connected with dyspepsia, Probably by relieving this they may have an effect on the Calculus though they do not dissolve them.

*Morua Folia*. Indigenus. It does not affect the heart and arteries at least to any perceptible degree. Ferriar gave ʒss and it occasioned nausea. I conceive the Medium dose to be from my own experience and



1841



that of my medical Friends about 3j of the powdered  
leaves. Barton who appears fond of small doses gave from  
5 to 8 gr. Sanguis gave 3j. Some writers have conceived  
the stone to be dissolved by this M<sup>d</sup>. but this is not true  
the M<sup>d</sup> however greatly relieves the stone. Ferris has  
employed it beneficially in Nephritis in the dose of 5 gr  
and a half a gr of Op<sup>i</sup>. I think the caution of premising  
U<sup>r</sup> before using uva ursi is of less importance than in  
the use of any tonic. The Ulceration of the kidneys & bladder  
Dr. Haen has employed the remedy he says with benefit  
I suspect he means the irritable bladder of late writers  
I think the uva ursi to succeed as well as any other remedy  
I have never trusted it alone In bloody urine in catarrh  
of the bladder in Dysuria. Though Physicians are very vague  
in the diseases to which they have attached their applications  
it has been employed with benefit In Leucorrhoea I have  
heard much but seen little of its effects frequently in  
Gonorrhoea stricture and in the diseases and irregular state  
of the menses are at the bottom of the disease and require  
to be ~~more~~ remedied before the effect can be  
cured a late writer has recommended the uva ursi  
in consumption connected with diseased bladder  
this is a very vague mode of talking probably in hec-  
tum a diseased Bladder the remedy may be of benefit  
Pyrolis Umbellata - Dr. Barton says he has <sup>been</sup> ~~found~~ <sup>of</sup> ~~it~~  
that it has been advantageously used as an antileptic I  
conceive it to be ~~of~~ ~~useful~~ ~~in~~ ~~the~~ ~~case~~ ~~of~~ ~~the~~ ~~stone~~ ~~but~~ ~~have~~ ~~had~~  
very little experience with it







*Susculis communis* vel *Murmulus Lupus*—

The extensive use of this article in Malt Liqueurs should have long ago decided the antilithic properties to be but trifling it has even been asserted by some that stone is more frequent than then persons who employ malt Liqueur as a common drink but stone is as frequent in France where no Malt Liqueur is employed as in those where it is used extensively The dose of the Infusion is ʒss twice a day & of the saturated Tincture ʒjss Murray of Gottenberg says he does not wish to adorn the remedy with too many encomiums A sentiment which Dr. Keach. Dr. Chapman says he besides the wild carrot with advantage The root and seeds are the parts employed the dose is not precise

*Oil of Serpentine* This was first employed by Dr. Physick as an Antilithic with great benefit Dose ʒ-10 or 15 Drops 3 or 4 times a day. I think the best mode of disguising its taste is by mixing it with oil of Sassafras but any essential oil will do. It allays the pain in Nephritis and almost immediately stops the discharge of sandy matter per urethra Dr. Physick has always found it useful - I have also used it with success Garlic, *Alium Sativum* Sydenham has employed it with benefit in Dropsy I have seen it employed without benefit at present we are unacquainted with any article that can dissolve the stone in the body but I am not of opinion that we shall always remain without one







I now call your attention to the fact of a discharge of stone or sand per Urinam being feigned by persons who would not be supposed guilty of such dissimulation or could not resort to it from interested motives / here he related a case which happened to a correspondent of Dr. Parran's and two which occurred to himself all the subjects were females two of respectable standing in society, the other a Negro - I consider these Morbi Simulati as cases of pure Hypochondriasis they may be easily detected.

## Diaphoretics.

They are more suited to produce a discharge by the ~~surface~~<sup>skin</sup> whether by Insensible or sensible perspiration they are very powerful evacuants Sanctorius says the evacuation from the skin alone in one day is equal to all others for 15 days There is doubtless some error in the calculations of Sanctorius It is now very generally believed that the degree of force alone makes the difference between the different diaphoretics - The human Body constantly sends forth from its surface on exhalation of vapor whether this be produced by a secretory process is not determined. This vapor has been considered by many a real gas but its condensation into sweat proves this not to be the case. Whether the Perspiration differs in its chemical property







under different states of the Body is not uncertain but is very probably the case Dr Bullen supposes that all diaphoretics to act either upon the circulation in general or upon the superficial vessels increasing their Action. This explanation however I doubt. In some cases we frequently find the excretions of the skin going on and again we find the skin perfectly dry while the pulse and Arteries are beating strongly Diaphoresis must like other Actions be produced by a determination to the different organs they act upon the same principle as other depletants - 1<sup>st</sup> By diminishing the quantity of serum in the blood &c. by exciting a new Action but they also diminish the Volume of blood in the large artery by determining it to the extreme vessels There is one thing that must be conceded to Dr Bullen that if the Perspiration be stopped by a constriction of the extreme vessels a fever may be produced and hence the diaphoretics may do good by resorting the perspiration various means may be resorted to to produce Diaphoresis as warmth exercise Rubefacients certain drinks taken into the stomach but many of these cannot be had recourse to in diseases. Whenever the human body can be placed in a lower temperature than usual there is an stoppage of the cuticular exhalation and in a high temperature and increase of heat we see that by the application of heat and a careful attention to guard against cold Diaphoresis may be produced.







The kidneys and skin are the excretories by which the excess of moisture is discharged from the ~~system~~ system hence by drinking large quantities of water we increase both of these excretories and this ~~correcting~~ up the body is generally resorted to to aid the action of other remedies of this class. In cases where long continued sweating is necessary Flannel is much better than linen or muslin. The application of cold during diaphoresis is very dangerous and hence we cannot direct purging as a remedy on account of the patients exposing themselves ~~unwisely~~ to the cold when he gets up to evacuate his bowels. After the sweating process is completed we should shift the patients bed - Linen & clothes - Sweating is a very popular remedy and very generally resorted to by persons out of the profession on the attack of diseases. Of the use of Diaphoretics in diseases. By continued fever as a general term is meant either the synochus or typhus of Cullen whether such diseases a pure continued fever ever occurs is doubtful. One of the most remarkable phenomena of fever is the increased temperature of the body which must depend on diminished perspiration the Temperature sometimes run to 109 Fahrenheit. There are two circumstances in these diseases which would appear to direct the use of Diaphoretics the first is the absence of exhalation from the skin. The 2<sup>d</sup> is the paroxysm naturally going off with sweat Cullen has observed the power of perspiration in preventing the accession of Fevers & if it be only a



*[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side. A horizontal line is visible near the top center.]*



a slight attack the practice may answer but caution  
 you against trusting to this treatment in acute fevers  
 of our country in fact it is almost impossible to excite  
 sweating in acute fevers until U<sup>p</sup> has  
 been employed. In remittent and Intermittent fevers  
 Diaphoretics have been resorted to both in the accessions  
 and remissions. The practice is very useful. In typhus  
 fever and those states of Fever analogous to it Diapho-  
 retics have been resorted to. These diseases very seldom  
 occur in America when they do sweating is proper as  
 also it is in Typhus Pneumonia. In the Phlegmies  
 sudorifics are indicated but sweating cannot be induced  
 if the ~~skin~~ heat of the skin is above  $103^{\circ}$  and hence this  
<sup>heat</sup> must first be reduced by U<sup>p</sup> & B & C and after these evacuations  
 have been performed relaxing diaphoretics are to be  
 resorted to. In Rheumatism diaphoretics are proper but  
 but are not to be resorted to until evacuation with the  
 lancet has been performed. In Chronic Rheumatism  
 the more stimulating diaphoretics are to be used —  
 after bleeding and purging in those cases of Gout  
 where a retrocession is not feared sweating may be  
 resorted to. In peritoneal inflammation sweating  
 is very beneficial. In hemorrhage diaphoretics are  
 doubtful remedies. In exanthemata the ancients  
 were very fond of the diaphoretic remedies and when  
 properly employed they are found beneficial. In  
 profusio the diaphoretic ~~meds~~ are to be employed.







or prohibited according to circumstances. In Catarrh as the Patient will seldom submit to confinement to bed diaphoretics are not so good more violent cases of this disease are to be treated precisely as the other inflammatory complaint & hemi diaphoretics are proper after evacuations. In the other pulmonary complaints in cooperation with other evacuations they are to be employed. In dysentery this class of Medicines has long been resorted to. Aken-side speaks highly of their use. I conceive Dysentery to be a pure inflammatory fever of the Bowels and treat it accordingly. To confide the cure of a case of this disease to diaphoretics alone would be improper. Mosely speaks highly in favor of the Sweating remedy under every circumstance but there never was a more presumptuous dogma. Richter observes that the cases of Dysentery which have come under his notice were mostly of a catarrhal or rheumatic nature an observation which proves the truth of the principles on which Dr. Rush formed his Theory of the unity of disease. Richter considered the secretion in the Intestines as consequence and not a cause of disease. A Theory long perfectly familiar with us. In dysentery after 12 or 15 purges of castor oil diaphoretics are to be resorted to. In Cholera Morbus they are employed. This disease is nearly connected with Dysentery. I never attempt the cure of the disease without the use of flannel clothing avoiding all exposure to cold and correcting the







and correcting the acidity of the primæ viæ  
by lime water &c In protracted cases of cholera  
the diaphoretic ~~meds~~ are important remedies. In all  
Bowel diseases the state of the skin is to be kept con-  
stantly in view. Diarrhoea is very frequently as I  
have already observed treated by emetic which reme-  
dies I believe act by virtue of the diaphoretic prop-  
erties - In Coma diaphoretics are improper but  
in Melancholia & Mania they are perhaps beneficial  
In tetanus from wounds diaphoretics are improper  
but in Idiopathic Tetanus I should think them  
proper In diabetes they have been used but form but  
a small part of the Treatment In America Diabetes  
very generally cured & by very opposite remedies Dr  
Rush cured a patient by bleeding - Dr. Physick  
treat his patients after the plan of Kolla keeping in  
view a state of the System. He found benefit from  
the following prescription

~~R~~ *Uva Ursi* —  
*Misce et fect Pulv-300* <sup>grs</sup> *Cost Peru. cre. ʒj*  
*Opii* — *ʒss*

He directs them to drink lime water and confine  
them to Animal Diet In Dropsy Diaphoresis is among  
the remedies to be chiefly depended on It might be supposed  
that the evaporation by the skin would interfere with the  
discharge by the kidneys. But if the water is discharged  
it matters not in what manner it is effected. The  
Diaphoretics are best adapted to Dropsy after febrile  
diseases and where febrile symptoms are present







Particular Diaphoretics. If Emetics as diaphoretics The preparations of Antimony ~~is~~ as diaphoretics are the same as those ~~is~~ on account of their Emetic properties but Tart Emetic has now superseded all the rest when it is prescribed as a Diaphoretic I do not hesitate to recommend the Nitrous powder before spoken Emet Tart and Glauber's Salt dissolved in Setzer water is also an excellent prescription it is to be given in divided doses

Vinum Antimonii in Pepsidors is likewise a very excellent diaphoretic especially for children To a very young child within the month I would give 1 drop under 5 from 3 to 5 drops and patient from this upward - 10 - 15 - 20 or 30 drops I however prefer the watery solution of Tart Ant. to the wine In Bilious fever and Dysentery ~~see~~ John Pringle & Boston have highly recommended the Ant diaphoretic In Rheumatism Ant. is an excellent sudorific The powder hinted at above is an excellent mode of giving it repeated every 2 hours The James Powder which are now ~~known~~ <sup>known</sup> to be an Elix of Ant with phosphate of lime is highly spoken of There is undoubtedly a considerable difference in the action of articles of this class there is one that appears to act upon the heart and Arteries another that appears to act by relaxing the skin and a third by acting upon the exhalents themselves. The application of heat to the body or by friction are among the means employ for exciting perspiration heat may be applied by confining the feet of the body or by the application of Artificial heat by confining the Patient to bed and applying hot bricks or bladders or bottles filled with hot water to the feet thighs &c (Brick) hot <sup>with</sup> vinegar & wrapped in flannel I believe to be the best







Or Dr. Jennings apparatus may be used. Bags of hot sand, ashes, chaff, chipped straw, salt Bran, or oats may all be used to produce the same effect. viz The production of a copious sweat which is to be kept up by warm herb tea, wine whey &c. The warm bath is attended with so many Inconveniences that it can seldom be applied to produce diaphoresis the same may be observed by pediluvium. Cold water applied to the skin or taken into the stomach will excite perspiration but I do not recommend it to procure perspiration simply. In the Practice of the London Physicians the preparation is still extensively employed. From the results of Experiment made by Dr. Keil on the true James Powder he asserts that it is an uncertain remedy and that all its effects may be obtained from the Emetic Tartar in purser doses. In combination with Opium the Emetic is a powerful diaphoretic resembling the Dover's powder — The cases in which Antimony is contraindicated are Gouty Dyspeptic cases liable to cramp of the stomach and termina of the Bowels. *Specacubanna* This like the above is a relaxing diaphoretic The dose is from  $\frac{1}{2}$  gr to 2 or 3 gr every 3 or 4 hours In combination with Nitre I have employed it in the following proportions —

$\mathcal{R}$ Specac	_____ gr ss
Nitre	_____ gr viii

To be given for a Dose the common way of giving it is in the form of Dover's powder. — the rest 1000







The wine is a very elegant mode of giving it as a Diaphoretic The dose of the wine is from 30 or 40 Drops to a tea spoonfull All the other emetics when taken in nauseating doses act as Diaphoretics When the stomach is very Irritable or where we wish to avoid every depressing effect the Emetics are contraindicated

The Neutral Salts have all been employed as diaphoretics the common saline draught of Riverus promotes both the secretion of the kidneys and skin and is very grateful to the stomach It is very frequently employed in England and too much overlooked in America

	℞ Lemon juice — 3j
To saturate decide acide	Carbonate Potash — q
Saccharum Alba —	Sach Alba — 3j
	et Aqua — 3.℥

Nitre is a useful diaphoretic but I do not ascribe all its effects in fever to its action on the skin it acts also on the other excretions In Inflammatory diseases it is certainly a valuable med its dose from 10 to 15 grs It is not necessary to particularize the several Neutral salts us as Diaphoretics all the cathartic salts when combined with Emet Salt act on the skin

Spiritus Mindereris	℞ Vinegar — 3j
Saturate with	Carbonat <del>Ammoniac</del> q

this Med acts as an Antiphlogistic remedy and is too much neglected in America







Opium has been inserted by Murray into the lists of diaphoretics but I would never administer it for this purpose its other properties would render it improper in common cases as a diaphoretic when given alone in large doses it produces perspiration but it acts more powerfully when combined with Emetic Tartar or Spices. By this combination says Murray we are possessed of one of the most powerful diaphoretics the combination of Opium is generally by combining 25 drops of Laud. with 35 of Vini Ictimonii. When given in the dose of 15 drops we obtain a narcotic well adapted to these cases of Phlegmonia in which we are obliged to administer an opiate - Dovers powder

*℞ Spices —*

Opii ——— 10 parts  
Sulphur potass 3 Do.

I generally prefer the Nitrate of Potass to the sulphur 10 parts - the dose of the powder 10 grains I am not very tenacious however of this change. In different diseases there can be no doubt of the propriety of varying the formulae thus instead of the neutral salts substituting in dysentery prepared Chalk, Cullen's directions for exhibiting the Pulvis Powder (see his *Medic. Medicæ* Vol 2<sup>a</sup> Article Opii) He directs it to be given in the morning the patient for security against cold is to be laid in Woolen and clothed with a flannel Shirt &c The powder will generally be taken more readily in Bolus







If <sup>or</sup> giving it in <sup>turnant</sup> fully It will be in general  
 best to cover the Body with more bed clothes than usual  
 especially on the feet and legs no drink should be  
 taken untill the sweat break out afterwards he should  
 drink but in small quantities at first and frequent  
 ly repeated herb teas (warm) and continue during the  
 sweating. If the sweat does not extend freely to the legs  
 and feet more coverings should be put over them or  
 Brick heated and steeped in vinegar should be put to  
 the feet as the sweat should be carried on with as  
 little heat as possible if the patient finds himself  
 very warm and restless the additional covering  
 should be gradually removed If the sweat be well  
 borne it is of consequence to continue for sometime &  
 always if possible for 12 hours afterwards the body should  
 be wiped dry with warm towels and is to be put in  
 dry flannels and Blankets he may now put out his  
 hands and arms from under the Bed clothes but  
 should continue in Bed untill next morning when they  
 may come out of Bed and put on his linen & ordinary  
 dress But should remain his room at least within doors  
 the whole day or even two days afterwards carefully  
 avoiding exposure to cold I generally direct the powder  
 to be taken at bed time - In Intermittent Fevers  
 the <sup>man</sup> is proper - In Inflammatory ~~fevers~~ rheum  
 atism it has been ~~err~~ It never should be given in  
 any of the Phlegmasia untill it has been previous.







It was by this Medic that Dr. Brown killed  
himself in acute gout In dropsy the Medic has  
been used but I do not expect much from it in this  
disease. Camphor Musk & Sulphur I do not  
think them of much importance as diaphoretics  
Eupatorium Perfoliatum, A indigenous This plant  
possesses very varied powers Acting as an Emetic, Diaph-  
oretic, Tonic &c The leaves and stalks are the active  
Parts used as a strong Tea & taken warm it acts powerfully  
as a diaphoretic The Indians used in cure of Intermitting  
as an emetic in the commencement and afterward as  
a Diaphoretic How far its tonic power contributed  
to the cure I know not not being at all desirous of  
imitating a very savage practice of using savage Remedies  
It has been used extensively in Intermitting in some  
parts of our Country and hence has received the name  
of ague weed - but I have no desire of seeing any other  
Remedies used in this disease than these we now possess  
In some of the pestiferous diseases I have seen it do good  
Barton does not seem to value it so highly as some  
of his Countrymen - In dropsy and in some Chronic  
diseases of the skin there are accounts of its having  
done good I think it is a misfortune that the Article  
has been too highly extolled as this will lead practitioners  
to neglect its real value Polygala senega as a  
Diaphoretic it is given in Decotion of  $\frac{1}{3}$  of the  
root to  $\frac{1}{2}$  of water and  $\frac{1}{2}$  to be taken at a time







111  
Millman & others speaks highly in its favor—  
Saurasapapas. The root & Bark are the parts  
employed in infusion this is a very popular remedy  
and is Diuretic & Diaphoretic it forms a very grateful  
addition to the Lisbon diet drink —

Guaiacum Officinale The Wood and Gum resin  
This was originally brought from the West Indies a  
cure for the Venereal disease as an antisyphilitic  
it is met. The Decoction is generally gently stimulant  
and Diaphoretic The decoction is now employed in  
chronic cases of venereal disease in combination with  
other remedies in the proportion of 1 lb of the wood to 11 lb  
of water boiled down to 4 and drunk ad libitum. The  
Tincture of Guaiac is much used by the addition of  
Ammonia The diaphoretic powers are improved It is em-  
ployed in Chronic Rheumatism Dose from 3 to 4 grains  
cases occur in which the Spiritus Menstruum is im-  
proper—20 to 30 gr of the powder may be given here or  
in emulsion with the yolk of an Egg as directed by  
Cullen Guaiac is sometimes used in Gout It was found  
however like other specifics for this disease to fail  
Cullen censured this attempt to prevent an attack  
of the Gout by this or any other means. There is  
however many cases of gout accompanied with  
Symptoms not easily distinguished from a rheumatism  
in these cases our remedies are valuable I have  
also used it in Gouty pains of the stomach in those cases







The spiritus solution was used and very probably the menstruum had its share in the ~~effect~~ cure. —  
 Dispense Mezeron This article has long been used as a Diaphoretic I place it here partly on account of its diaphoretic properties and partly because it is used in combination with the former article. The dose of the Infusion is ʒij to ℥ij of water for a dose every 2 hours It has been used in cases of Chronic Rheumatism and in the Venereal disease. The usual mode of exhibiting the mezeron and Guaiac is in a prescription resembling Diet drink (Lisbon) The Decoction of the woods of the dispensatories is equal to any mode of giving it. The Older Physicians were in the habit of adding to it Antimony and that in its crude state consequently without adding anything to its effects. The recipe I generally prefer is the following —

{	℞ Lig Guaiac — ʒij
{	Sassafras —
{	Lig licice — ac ʒj
{	Liqua — ℥j

That it is useful in some chronic cases of rheumatism. I am assured In Syphilis I believe it to be Absolutely inert that is as respects any antivenereal powers Pearson of Lock Hospital speaks more favourably of it he says it has suspended some of the sequelae of the disease though these have again returned even while the patient was taking the article —







Savine, Dr. Chapman speaks favourably of this article as a diaphoretic in Chronic Rheumatism it is found to heat the stomach when administered & sometimes to produce an Eruption on the skin.

## Sialagogues.

They are those Medicines which produce an Increase of secretion from the Salivary glands. They have been divided into external and internal or masticatories and Sialagogues properly so called every article even though perfectly inert as a portion of wood will produce when chewed a secretion of the saliva. The Tobacco is the only proper article of the list of Masticatories I shall mention. Of the internal sialagogue, the mercury is the only one given solely with the view of producing sialagogue effects. Mercury is one of the most interesting article of the Materia Medica. Its chemical history ought to excite your deepest interest. The diversified effects of Mercury on the system being far beyond that of any other article upon our list—Before Chemistry was a science Mercury was considered only as a poison—The Arabian Physicians first used it externally—it appears first to have been given internally to the cattle to destroy worms &



Diagnosis

Diagnosis of the disease is made by the history and the physical examination. It is found to be a disease of the nervous system and is characterized by the following symptoms:

They are the following symptoms which are seen in the disease: 1. The patient is usually a young man. 2. The disease is usually of the chronic type. 3. The patient is usually of the nervous type. 4. The patient is usually of the sensitive type. 5. The patient is usually of the irritable type. 6. The patient is usually of the depressed type. 7. The patient is usually of the anxious type. 8. The patient is usually of the melancholic type. 9. The patient is usually of the hysterical type. 10. The patient is usually of the epileptic type. 11. The patient is usually of the manic type. 12. The patient is usually of the depressive type. 13. The patient is usually of the mixed type. 14. The patient is usually of the atypical type. 15. The patient is usually of the rare type. 16. The patient is usually of the common type. 17. The patient is usually of the unusual type. 18. The patient is usually of the typical type. 19. The patient is usually of the atypical type. 20. The patient is usually of the rare type. 21. The patient is usually of the common type. 22. The patient is usually of the unusual type. 23. The patient is usually of the typical type. 24. The patient is usually of the atypical type. 25. The patient is usually of the rare type. 26. The patient is usually of the common type. 27. The patient is usually of the unusual type. 28. The patient is usually of the typical type. 29. The patient is usually of the atypical type. 30. The patient is usually of the rare type. 31. The patient is usually of the common type. 32. The patient is usually of the unusual type. 33. The patient is usually of the typical type. 34. The patient is usually of the atypical type. 35. The patient is usually of the rare type. 36. The patient is usually of the common type. 37. The patient is usually of the unusual type. 38. The patient is usually of the typical type. 39. The patient is usually of the atypical type. 40. The patient is usually of the rare type. 41. The patient is usually of the common type. 42. The patient is usually of the unusual type. 43. The patient is usually of the typical type. 44. The patient is usually of the atypical type. 45. The patient is usually of the rare type. 46. The patient is usually of the common type. 47. The patient is usually of the unusual type. 48. The patient is usually of the typical type. 49. The patient is usually of the atypical type. 50. The patient is usually of the rare type. 51. The patient is usually of the common type. 52. The patient is usually of the unusual type. 53. The patient is usually of the typical type. 54. The patient is usually of the atypical type. 55. The patient is usually of the rare type. 56. The patient is usually of the common type. 57. The patient is usually of the unusual type. 58. The patient is usually of the typical type. 59. The patient is usually of the atypical type. 60. The patient is usually of the rare type. 61. The patient is usually of the common type. 62. The patient is usually of the unusual type. 63. The patient is usually of the typical type. 64. The patient is usually of the atypical type. 65. The patient is usually of the rare type. 66. The patient is usually of the common type. 67. The patient is usually of the unusual type. 68. The patient is usually of the typical type. 69. The patient is usually of the atypical type. 70. The patient is usually of the rare type. 71. The patient is usually of the common type. 72. The patient is usually of the unusual type. 73. The patient is usually of the typical type. 74. The patient is usually of the atypical type. 75. The patient is usually of the rare type. 76. The patient is usually of the common type. 77. The patient is usually of the unusual type. 78. The patient is usually of the typical type. 79. The patient is usually of the atypical type. 80. The patient is usually of the rare type. 81. The patient is usually of the common type. 82. The patient is usually of the unusual type. 83. The patient is usually of the typical type. 84. The patient is usually of the atypical type. 85. The patient is usually of the rare type. 86. The patient is usually of the common type. 87. The patient is usually of the unusual type. 88. The patient is usually of the typical type. 89. The patient is usually of the atypical type. 90. The patient is usually of the rare type. 91. The patient is usually of the common type. 92. The patient is usually of the unusual type. 93. The patient is usually of the typical type. 94. The patient is usually of the atypical type. 95. The patient is usually of the rare type. 96. The patient is usually of the common type. 97. The patient is usually of the unusual type. 98. The patient is usually of the typical type. 99. The patient is usually of the atypical type. 100. The patient is usually of the rare type.



afterwards in the human Body for a similar purpose. Soon after this period the chemist acquired the Ascendancy in Medical science and Mercury sees employ in the cure of ~~the~~ disease of every different indication. There are cases of daily occurrence which must convince every examining mind that there is much yet to be learned with respect to the properties of our ~~Metal~~ <sup>Metal</sup>. In its metallic state Mercury is perfectly inert but this is the case with respect to the stomach when applied to the state of vapour to the skin or is inhaled in that state it produces its specific effect. There are morbid consequences said to result in those employed in procuring this Metal from the mines where it is found they living but a short time.

Boiled in water it evidently gives it a peculiar Metallic taste. Though Mercury in its metallic state be inert yet there are a variety of Methods of rendering it active the differing in other properties all these preparations agree in producing ptyalism Salivation is very difficult of being produced in some constitutions whilst in others the contrary is the fact. The effect it produces on the Mouth especially in Children runs sometimes ~~now~~ into Mortification. A Species of Fever precedes and attends salivation. One of the Earliest symptoms of the commencing effects of the medicine upon the Mouth is a slight lividness of the Gums.







Preparations of mercury, Plenk's Solution this is made by saturating with mucilage of Gum Arabic The Author of this preparation speaks highly in its favour But the Blue Pill is preferable

Blue Pill made by triturating mercury with Syrup or some mucilaginous substance adding a small portion of Pink Pheri or what I prefer Lister **IPPT.** Unquestionable forms of Mercury triturated with lead the best is that which contains simply the Lard & Mercury without the addition of any other substance what change the Mercury undergoes in this preparation is not decided some have supposed it to be oxydized others that it is acted upon by the sebaceous acid & others that ~~by~~ that it is merely mechanically divided - Many have supposed the effects of the preparation of mercury upon the Body to be owing merely to the oxygen they contain - but the oxygen alone will not activate Mercury acquires by its combination with oxygen acids & other substances still more active powers

Of Modes of Exerndi of Mercury The seventeenth century was ushered in by the brilliant discovery of the circulation of the Blood The reigning doctrine and this sometimes after was the Mechanical The ponderosity and minute divisibility of mercury was supposed to render it peculiar capable of entering every vessel even the most minute and by that means clearing out the (Morbific matter upon which they supposed it to depend)







before it rendering the offices of the small vessels ~~potent~~ & ~~Paracelsus~~ ~~supposes~~ Mercury to act as an evacuant throwing  
 out the Morbific Matter & Cullen has only added to  
 the above Theory the expression of the fact that it has  
 a peculiar tendency to the Salivary Glands. Bell  
 & Swediaur have supposed that the Mercury unites with the  
 Venereal Virus and destroys its activity Experiment have  
 however shown that Mercury added to virus provided it be  
 not in so great a quantity as to debilitate it too much does not  
 prevent its operation when applied to the system  
 Hunter considers it a general maxim that no two actions  
 can exist in the system at the same time he therefore  
 supposes the Mercurial Action completely to overpower  
 the Venereal Action Thus substituting an action that  
 will speedily subside for one that will otherwise contin-  
 ually go on increasing. This explanation in my opinion  
 is the only true one it has been said that Hunter's doc-  
 trines is merely a combination of Stahl & others which  
 is certainly false If Mercury ever absorbed into the system  
 by the skin! In the living human Body Irritability  
 exists which renders it capable of taking on action when  
 stimulated & it possesses another Power by which this  
 Action is propagated to parts remote from that primarily  
 acted upon call it Sympathy Now whether we consider Mercury  
 to stimulate the skin or stomach or to enter the blood  
 vessels & stimulate them we must explain its action on  
 the other Parts upon which it operates and with which







which it does not come in contact upon the principal of Sympathy we therefore conclude that no facility will be added to surmount the difficulty thrown in the way of our explanation of the Modes of Mercurials of ~~the~~ by allowing it admittance into the system's Globules of Mercury have been said to have been found in the Bones &c. Mead, Boerhaave and others make this assertion though these writers cannot be supposed wilfully to have misrepresented. We find men very easy to admit the existence of a thing the presence which they have previously considered as a theory —

The Hunters, Bailey & others have in vain search hunted for these Globules. To ascertain whether Mercury could be detected in the blood or secretions of persons under its action a set of Experiments were instituted by Dr. Physick but he was unable to find any trace of the article in either. In the concluding observations of these details Dr. Physick has endeavoured to explain the operation of this ~~mode~~ by sympathy —

The remaining preparations of Mercury are ~~the~~ Mineral Black Sulphuret of Mercury — dose 5 to 10 gr. Cinnibar, red sulphuret vermilion this was used formerly in venous chronic diseases but now only as a fumigant Calomel This is a mixture the Calomel being at the Minimum of Oxidation it is a cathartic and has been mentioned already under that head In my opinion it is the most valuable of all the mercurial preparations







To be active as a Diagogue it must be given in the dose of 1 or 2 gr ~~hour~~ or day and in case of emergencies  $\frac{1}{2}$  gr 4 times a day. The first dose or two generally purge but this effect soon stops or may be obviated by the addition of Opium. In the Febrile case we give it not only to act as a Diagogue but so as to act on all the secretions.

**Corrosive Sublimate** This is also a mercurate the metal being at the maximum of oxidation the dose as a Diagogue is from  $\frac{1}{8}$  to  $\frac{1}{6}$  or  $\frac{1}{4}$  of a grain. It is generally used in the form of Pill. The article should be well mixed up with Gum Arabic so that it may be equally distributed throughout all the Pills. The ~~max~~ in an overdose Nauseates and acts as a powerful ~~poison~~ <sup>poison</sup>. Red Oxide of Mercury is made by exposing the metal to heat it is seldom used it acts with violence on the on the Bowels  $\frac{1}{2}$  to 1 gr twice a day.

**Red Precipitate** Red Oxide of Mercury by Nitric Acid this preparation is more active than the other oxide it is not much employed as a Diagogue.

**Grey Oxide** dose 2 or 3 gr twice a day.

**Lurpeth Mineral. Sub Sulphate of Mercury** this preparation is seldom employed.

**White Precipitate** seldom employed.

Of the use of mercury in disease.

In our short account of the history of this ~~max~~ we told you that the Arabians were the first who employed it in diseases they first employed it externally.







The European Physicians borrowed it and gradually acquired the boldness to exhibit it ~~externally~~ especially in Lues venerea. It was not until the commencement of the last Century that it was employed in fever. To Chisholm is due the honour of having introduced our ~~Mercury~~ into notice in this class of diseases. He employed it in 1792 & 93 in yellow fever he seems to have been led to this by his success with it in a fever in which the Liver had been affected. Succeeding Physicians have confirmed Dr. Chisholm's favourable reports of the effects of Mercury in the West Indies. Fevers Lynd and Jackson condemn the use of Mercury in diseases of this kind. In the Yellow Fever of this City Calomel has been extensively employed. Believing this disease to be a mere modification of our epidemic I shall merely observe that the authority of all practitioners are in favour of Dr. Rush's report on this subject who is pointedly in favour of the use of the Merc when the Mercury passes off by the Bowels. He employs the ointment. No Physicians in America however trusted to Calomel alone. Rush only employs it in conjunction with the Laxative. In protracted cases of the milder Billious fever the Merc becomes necessary as a Salagogue. In typhus the propriety of the use of mercury is not decided in cases of great debility it is contraindicated. In a Typhus Epidemic that occurred in Boston Dr. Warner gave Mercury with benefit his dose was 10 to 15 gr frequently repeated.



The Commission of the General Assembly of the State of New York, in and for the County of Albany, do hereby certify that the following is a true and correct copy of the report of the Board of Regents of the University of the State of New York, as the same appears in the minutes of the said Board, taken at a meeting held at Albany, on the 10th day of January, 1882.

The Board of Regents of the University of the State of New York, do hereby certify that the following is a true and correct copy of the report of the Board of Regents of the University of the State of New York, as the same appears in the minutes of the said Board, taken at a meeting held at Albany, on the 10th day of January, 1882.



Dr. Rush has left his authority in favour of a salivation in Syphilis Mitis. In Boston I understand the Physicians are in favour of employing mercury in cases of Sporadic Syphilis which occasionally occurs there. In the Phlegmasia especially chronic, mercury is serviceable we call it in these cases an alterative. It being employed so as not to excite in any degree any of the secretions. In chronic ophthalmia after all the remedies have failed Mercury has cured the disease. In Phrenitis after evacuation mercury ~~is~~ is of all remedies the most important. In Mania a salivation has frequently succeeded. In pneumonia if the evacuations do not remove the disease Salivation is resorted to. ~~to~~ remove the cough and other symptoms.

The New England Practitioner considers mercury as the best expectorant we are possessed of and when the inflamed vessels are brought to secrete the cough &c are generally relieved. On the subject of consumption I have already explained my views. Mercury has been employed in this disease especially by Rush when it affects the Mouth he declares that it succeeds and has even cured the disease in its latter stages. In the Chronic cases of Pneumonia which Dr. Rush has considered Phtisis the mercury undoubtedly is an invaluable medicine but where tubercles are present it is highly improper notwithstanding my doubts as to the propriety of Mercury in genuine consumption. I believe that in some cases of true consumption it is proper.







In the different Cynanche it has been employed In Cynanche Maligna it has been very generally employed my own experience in this ~~disorder~~ <sup>disease</sup> does not corroborate a conclusion In Cynanche Trachealis Dr. Rush has used Mercury very extensively which practice has been imitated by the European Practitioners In conjunction with Opium Purgers Blister & Calomel is an excellent remedy Dr. Hughs Theory of its operation is probably a very good one. He supposes the action of the Mercury on the Bowels and the complaint of the trachea upon the broad principle of incompatibility of two actions going on the system at once. The cases of Cynanche it is to be observed are very liable to insidious remissions and those which terminate fatally are more commonly the cases which appears to be relieved and again recur than sudden original cases. Bronchotomy has been recommended as a <sup>desperate</sup> resort in this disease I have in one case employed the remedy when the patient appeared to be in the very arms of Death and the moment the Incision was made whether by <sup>relieving</sup> ~~spontaneous~~ or from the top of the small quantity of blood or what, the patient was relieved immediately. Purgers with large doses of Calomel is the best remedy in all protracted cases of coughs & catarrhs of children In Rheumatism Mercury has been tried sometimes with success sometimes without benefit. Mercury has been recommended in Syphilitic Rheumatism The common Pictious Powder with Calomel with Lead and Opium I have found of Benefit.







In Gout Mercury is not entitled to any great confidence. In Hepatitis the mercury is justly considered as a highly useful medicine. In the acute stage used as a purge and afterward as a sialagogue. It is generally successful when the organization of the liver is not entirely destroyed every attempt to the cure the disease after it has run its course and destroyed the liver must prove abortive. In those cases where the size and hardness of the liver are only affected or where it is affected with tubercles the Mercury is the remedy. The only symptom that will contraindicate the use of mercury is the ~~only~~ great prostration of strength. Blisters where there is much pain and inflammation are proper. When ever the mercurial action takes place previous to the commencement of suppuration in the Liver. The East Indian Practitioner declares the cure to be effectual. In Intermitting Mercury is generally proper as an evacuant in the commencement of the disease and when the stain continues yellow for any length of time a salivation does good. Dysentery this is to be ~~treated~~ like every other case of Billious fever most of the west India practitioners consider mercury as an excellent remedy in this disease. In the East Indies a salivation also is recommended. In America it seldom runs on to a chronic state whenever it does we should resort to a salivation. Dr. Barton says that when it does no good for 3 or 4 Days the Mercury must be laid and thus will seldom occur.



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In chronic Diarrhoea Mercury has been found succeed when every other remedy has failed as also it has in ~~consumption~~ indigestion In Colica Pictoria Mercury has been recommended by Bluthsbuch as a Stalagogue & by black in large doses as a purge In the Nervous Mercury is an invaluable remedy In Epilepsy I have used it in one case especially with benefit The Mercury did not relieve Epilepsy sometimes arises from effusion of serum in the Brain here Mercury promises more than any other Mode from its effects of increasing absorption In Tetanus I have no confidence in any thing but Opium & Brandy in general the disease runs its course too quickly for Mercury be of benefit In the East Indies it is used after wounds to prevent Tetanus but this is not necessary in America it is here only necessary to keep up the tone of the system by diet & stimulants In hydrophobia it is useless either as a curative or as a prophylactic I have no confidence in any preventative for Hydrophobia except the knife — — —

Dr. Barton recommended Mercury in Hypochondriasis connected with Dyspepsia I have no doubt of its propriety There are many other nervous diseases in which Mercury is useful & there is an excellent practice existing among Practitioners that is of trying the mercury in every disease after every remedy has failed In Malaria & Asclepias especially when connected with visceral obstruction







Mercury is an excellent remedy as a sialagogue and as a purgative in mild cases In *Hydrocephalus Internus* which in its first stage I believe to be a febrile disease I cannot but consider the disease in its primary state as a species of Phrenitis - The termination of Inflammation (or the mischief resulting from inflammation this termination) becoming here a dangerous disease itself. From the uncertainty of all our of producing absorption from the Brain it becomes of importance to prevent it from running to that extent. This is to be effected by the vigorous use of the Antiphlogistic remedies if however these be neglected or inefficient effusion takes place and now it is that mercury is indicated In the very commencement of the disease however it is to be used as a purgative - but in the second stage it is to be thrown in so speedily and in so great an amount as to produce a speedy salivation In various diseases of the skin Mercury is proper - The Lotion ointment has effect a perfect cure of the tinea capitis, better &c. Salivation has succeeded in many cases of these affections where every other remedy has failed In many cases of deafness a salivation has been beneficial by producing absorption of vitious matter in the Tympanum &c. and by exciting the ~~auditory~~ auditory nerve In recent opacities of the Cornea Mercury is the best remedy you can use In *Erythema serena* it has often failed







Of The Venereal disease. It is not necessary to discuss the origin of this disease. It was evidently unknown previously to the voyages of Columbus. It appears in two forms Viz Gonorrhoea and Chancre or Lues. I do not at this time enter into any dispute as to the Identity of these two different forms. There is no point more fully settled than this. Having discussed on a former occasion the subject of Gonorrhoea I shall now proceed to the consideration of Chancre this is an ulcer occasioned by the application of venereal matter. Some persons are peculiarly predisposed to Chancres while others are on the contrary not easily infected. Those who have short prepuces are less liable to chancre than those who have long ones. This may arise from their being no lodging place for the matter and from the firmer texture of Glands acquired by exposure. — Gonorrhoea occurs much more frequently than Chancre. The angle of the Scrotum is the most common place of the occurrence of chancre if during coition or from any other means the skin becomes abraded chancre is more liable to occur than otherwise. The Chancre occurs sooner on the prepuce and sooner than on other parts. It is later in its recurrence when it is on the common — In 24 hours after the application of the virus chancres appears and sometimes they do not appear for several weeks. The number of Chancres varies sometimes there is only one & sometimes there is several —







An itching is first felt and then sometimes excoriation & ulceration occurs but generally a small pimple occurs filled with matter which ulcerates a great tumescence now takes place which gives an elevated edge to the chancre. Sometimes the inflammation becomes diffused producing paraphymosis & phimosis the ulcer still however preserves its specific appearance. The matter from the chancre varies in colour & consistency. It is generally small in quantity yellow and thin but at other times it is green viscid & sloughy sometimes forms on Venereal ulcers much enlarging them and hemorrhage frequently occurs from the separation of this slough. Chancres do not generally spread rapidly but sometimes the very contrary is the fact a very great part of the Penis being destroyed in a few days one of the most important indications in the treatment of chancre is to prevent the contamination of the system. This is to be effected by the use of Mercury. There have existed disputes whether chancre is to be cured by Mercury or by local applications—both will produce the effect—destroying the chancre it is to be observed is different from curing it. The Internal use of Mercury will cure the chancre but the cure will be tedious. We should therefore conjoin the use of external and internal means. Sometimes chancres are accompanied with inflammatory symptoms which are to be combated by the proper remedies for inflammation. Sometimes Tonics are indicated.



The history of the world is a long and tedious  
narrative of events, which, though they may be  
interesting to some, are to most of us, as a  
series of unconnected facts, and as such, they  
do not make a strong impression on the mind.  
The mind is a storehouse, and it is the business  
of the philosopher to arrange the materials  
which are deposited in it, so that they may be  
found in their proper order, and so that they  
may be able to form a just and accurate  
idea of the world, and of the human mind.  
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narrative of events, which, though they may be  
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found in their proper order, and so that they  
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idea of the world, and of the human mind.



The objection to the <sup>internal</sup> use of Mercury merely in the cure of Chancre is that it is tedious in producing the effect. The objection to the use of local remedies only is the danger of the systems having already become contaminated. Lunar Caustic & Red precipitate are the best local escharotics I prefer the latter Dr. Sydenham also prefers the latter. The cure strictly speaking of chancres by local application is by using mercurial preparations as plaisters &c so as to change the character of an ulcer. When Mercury is locally applied Hunter recommends it to be mixed with mucilaginous substances in place of oily ones. Phymosis which is occasioned by an inflammatory swelling of the Glans Penis is a great obstacle to the cure of chancre we should therefore prevent it if possible on the first appearance of inflammation by rest, cold applications and by placing the Glans Penis in an elevated position. When Phymosis has occurred the Chancre is to be treated by injecting under the prepuce a solution of Corrosive Sublimate sometimes Opium is added if this treatment augments the inflammation it is to be laid aside rest & cleanliness is to be attended too or perhaps the common bread & Milk Poultice with Lead water will be proper they should be aided by Leeches It is however best to slit up the prepuce and lay the Chancre bare if tumefaction exist sometime after a cold poultice is to be resorted to. If after the cure of the chancre a ragged edge or deformed prepuce remain the operation of circumcision should be performed.



The object of this paper is to show the  
importance of the study of the history of  
the human mind in its various stages of  
development. It is not enough to know  
the facts of history, but we must also  
understand the principles which govern  
the progress of the human mind. This  
is the object of the present paper. It  
will be seen that the human mind  
is not a static entity, but a dynamic  
one, which is constantly evolving and  
improving. The study of the history of  
the human mind is therefore a study of  
the progress of the human race. It is  
a study of the principles which govern  
the development of the human mind, and  
of the factors which influence its progress.  
The study of the history of the human  
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a study of the principles which govern  
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of the factors which influence its progress.



The Treatment for Paraphymosis is to perform the same incision through the prepuce to relieve the stricture upon the Glans it is however more difficult than on account of the closeness with which the prepuce clasp the neck of the glans. During the local treatment of Chancre Mercury should be given it not aids the cure of the ulcer but prevents the system from being effected. When we do not expect much Mercury will be required we administer it by the Mouth in the form of Colomet or Blue Pill. Otherwise the urgent may be employed we should continue the Mercury during the existence of Chancre and for some time after the cure except in cases of large ulcers where we may cease when it begins to skin over the effects of Salivation in some cases is very disagreeable if then we could use the mercury so as to keep the system under its influence without affecting the Mouth it would be of great importance. I know of no test of the action of mercury except its having affected the Mouth as soon as the incipient stages of this appears we should leave off the use of the M<sup>er</sup> remembering however that if we allow the system entirely recover from the Impression of the M<sup>er</sup> it will become very difficult to excite the Salivation again When Gangrene occurs in Chancre hemorrhage takes place to some extent The Mercury must then be left and the diet as we cannot apply ligatures to the bleeding vessels. In Women the Treatment of Chancre differs but little from that of men







excepting that no applications are difficult to be kept on lotions should be used

**BUBOES.** They appear in various parts of the body generally the first gland in the tract of the lymphatic from the ulcer becomes affected but sometimes a remote gland. Mr. Adams in his book on Morbid Poisons asserts that Buboos are never a primary symptom of Lues Venerea Buboos or swellings of the glands ~~occurring~~ occurring without chancre never being venereal and always curing without the use of Mercury. The Lymphatic carrying the Virus (if we admit that it is a virus) does not in general inflame - sometimes however a small hard red chord is felt running toward the Buboec which is the inflamed lymphatic. In general the Buboos occur on the side corresponding with the side of the Penis on which the Chancre is situated it is generally white the chancre is recent that the Buboos occurs the absorption of the matter however sometimes appears to take place sometimes previous to the formation of the Buboos the latter not appearing until the chancre is perfectly healed. A Buboec begins with pain and a small tumor in the groin which gradually increases in size and at length suppurates the quantity of matter in these abscess is very great and the skin over the tumor is of a peculiar red we should attempt to discuss the buboec for this purpose the usual







means of Combating inflammation should be em-  
 ployed besides which Mercury should be rubbed upon  
 the inside of the thigh but if this be too tedious in  
 producing the <sup>mercurial</sup> action the ~~Internal~~ <sup>Mare</sup> may be ad-  
 ministered internal Leeches are to be applied to the  
 tumor together with Blisters which are to be repeated  
 frequently even though suppuration has taken  
 place purges are to be daily used. The patient to be  
 kept on a Low diet we are not always able to prevent sup-  
 puration when this occurs it has been disputed whether  
 the Pus should be opened or left to break by the op-  
 eration of nature we should never cut through much  
 depth of flesh at least in common cases but we wait  
 till the skin is tolerably thin on the opening of these  
 Abscesses we may employ caustic when they are large  
 for by this means we destroy all the excess of Indurated  
 skin After the matter is discharged poultices must  
 be employed but if the ulcer be long healing caustic  
 or the various applications of mercury especially red  
 precipitate should be employed if the constitution suf-  
 fer, bark is to be employed. Bathing either in the sea  
 or in Artificial Salt Baths has been found beneficial  
 If we suspect a scrophulous taint we direct cicuta  
 with mercury ℞ Cicutoy Extract — 64 gr  
 Corrosive Sublimate 8 gr  
 Mince & fist pillular 64







Unless interrupted the Chancre and the ulcers  
 from the Buboe produce constitutional symptoms  
 of Pox. The parts first affected by the Lues and  
 in these symptoms called secondary occur are the  
 Throat nose tonsils & Skin &c. Adams asserts  
 that Mercury will not prevent the occurrence  
 of the Venereal disease though a certain cure for  
 the disease after it is formed it will prevent the access  
 of the symptoms during the time the system is  
 under the action of the Mercury but as soon as  
 it is left off they will appear. Lues Venerea gen-  
 erally occurs about six weeks after the system has  
 been contaminated or after the Mercurial action  
 employed for the cure of the Chancre has ceased it  
 it generally shows itself in the shape of ulcers in  
 the throat or blotches on the skin when a venereal  
 ulcer occurs on one tonsil it generally destroys part  
 of it and then gradually spreads to the whole before  
 the other tonsil is affected. The sore throat is preceded  
 and accompanied head ache, depression fever &c. When  
 the skin is affected there is no part attacked in preference  
 to another. The blotches are sometimes elevated above  
 the skin. They do not increase in size but in num-  
 ber when situated on parts exposed to friction they  
 very soon degenerates into ulcers. The course of  
 the Venereal sore Throat & Blotches is to be arrested by  
 the use of Mercury internally & by friction -







Nitric Acid has been found beneficial in ulcers of throat it may be used in the following Formula

R Acidium Nitricum

Gum Arabic aa. ʒij  
Liquor ——— ʒss

Misce et fiat Capiat loch pro dose  
the time the Mercury must be given and the quantity necessary must be decided by the circumstances of the case Caustic is in many cases necessary a local application to ulcers in the throat. The vegetable caustic is the best especially for ulcers deep seated because we can immediately neutralize the alkali by common vinegar and thus convert it into an innocent Neutral salt. The diet of the patient is with the venereal disease is to be regulated by the circumstances of the case. The secondary stage of Syphilis is that in which the bones farciæ & tendens pericostum is affected. If the first order of parts as the skin throat &c be affected by a previous chancre there is no security against the symptoms of the second stage. Wm Hunter denies that Venereal poison produces constitutional symptoms like other poisons but notwithstanding the mercury must be so administered as to put the whole system under its influence. Tincture in this case the best as the long use of Mercury by the mouth will be apt to destroy the tone of the stomach. In case of nodes &c there is no little or no Local treatment necessary —







but where there is great pain in the part it may be  
 relieved by an Incision or by Blisters When a bone sup-  
 purates we should make an incision and if the bone  
 be carious we should wait untill it becomes loose & remove  
 the scale Of the Morbid effects of Mercury —  
 All *Meds* are to be considered as producing a morbid state  
 of the system in a limited extent it is by this that they  
 effect the cure of the disease. The effects of Mercury how-  
 ever as a *Stoic* Lagogue are permanent than those of any  
 other *Meds* and from the ~~variable~~ variable effects of  
 the Medicine it requires great caution in its adminis-  
 tration a single grain has effected a Salivation while  
 in other cases no quantity will effect it. During sal-  
 ivation the cheek & tongue swell greatly and in some  
 cases to such an extent as to prevent deglutition I have  
 known the lower jaw luxated from a Salivation Gan-  
 grene has occasionally taken place and the whole  
 cheek has sloughed (I never saw this happen in persons  
 over 14 years of age) the Gum ulcerates the alveolar  
 processes become carious, hectic fever ensues, and finally  
 death There is no wonder then that Mercury is  
 so unpopular in practice In certain cases where death  
 is inevitable if some violent remedy be not employed  
 we are certainly warranted in carrying the *Md.* to  
 such an extent as to endanger the ensuing of these  
 effects a remedy capable of stopping the progress  
 of the Mercurial action is much wanted.







Sulphur has been much used and also several  
 other evacnants - but Opium is considered the best  
 we can use I believe the careful removal of the  
 remote cause by the warm Bath and exposure to  
 dry & cold air is the best prescription Many other  
 effects than those details have been ascribed to  
 Mercury by the late writers In some cases Mr  
 Hunter considers the Mercury as ceasing to act  
 as a remedy and producing a kind of hectic fever  
 with small frequent irregular pulse depression of  
 strength &c A disease sometimes is produced which  
 has been named Erythismus Mercurialis by Pearson  
 this latter as will appear by examining Mr. Pearson's  
 account of it & the Hectic fever of Mr. Hunter are  
 the same disease I believe the disease to be very un-  
 common in America Pearson orders the Mercury  
 to be laid aside when this occurs and the patient to use  
 exercise in the cold air without fatiguing himself  
 After ten days the Mercury may be again resumed  
 When the disease is once subsides he says it is not like-  
 ly again to recur You should not therefore be frightened  
 from the use of the only Medicine capable of curing the  
 Venereal disease When a Man is about to be taken by  
 the Erythismus (according to Mr. Pearson) he feels  
 some pain and itching about the scrotum and  
 upper part of the thigh with some redness







The lower extremities are always affected before  
 the upper ones. The redness which strongly resem-  
 bles the Erysipelatous inflammation gradually  
 extends over the Body It is a venereal disease and  
 when these break an ichorous discharge takes  
 place which excoriates the surrounding parts and  
 adds greatly to the Patients sufferings. The cure  
 is to be conducted by laying aside the Mercury  
 by using Antimonials lenitive purgatives, Opium  
 &c. For a more Minute Account see Pearson I have  
 seen but 2 Cases of this Affection and therefore conceive  
 it to be a rare a disease but <sup>very</sup> fortunately an opinion  
 is gaining ground that the mercury produces most of  
 the consequences much more frequently than was formerly  
 supposed. Matthias asserts that Mercury some-  
 times ceases to be a remedy and produces a specific Mor-  
 bid effect which is regular in its progress and effects  
 and is different from every other disease except in its  
 first symptoms and state in which it strongly resem-  
 bles the venereal disease. He considers Matthias Book  
 to be the means of doing - to have done already a great  
 Injury - by shaking our confidence in the only sure  
 remedy for venereal disease and further by rendering  
 an erroneous opinion probable that the real vene-  
 real disease is less frequent than has generally  
 been supposed. One would imagine that the preven-



The first of these is a very common one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The second is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The third is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The fourth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The fifth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The sixth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The seventh is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The eighth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The ninth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.  
The tenth is a more serious one, and is  
the result of the fact that the mind is not  
able to grasp the whole of a subject at once.  
It is only by a gradual process that we can  
come to understand the truth of a matter.



question would be easily settled and many  
 experiments may be related which will all  
 prove that Mercury never produces a disease at  
 all like the Venereal disease I have known Patients  
 kept for years under its influence without its  
 producing any effect resembling in the remotest  
 degree the symptoms of Syphilis Did any person ever  
 witness a Chancre or a Buboe produced by the  
 application of Mercury without at some period  
 the application of venereal matter The explanation  
 of Hunter on this subject as already related is I con-  
 ceive the most true & simple viz That Mercury  
 sometimes acts as a Poison producing a species  
 of Ecthic Fever The cure of Chancre as well as  
 Buboe may be suddenly arrested by many cir-  
 cumstances as a vitiated Air the occurrence of  
 Dyspeptic Patients or even the mercurial disease  
 the ulcers may become even enlarged but are we to  
 call this a Mercurial sore when it was primarily  
 produced by Venereal virus - The same observation  
 may be applied to all the other symptoms of  
 the venereal disease All I shall observe now is  
 that if mercury disagrees with the stomach or con-  
 stitution it must be laid aside but the moment  
 the Irritation ceases the Mercury must be again  
 resorted to as there is no other remedy that will  
 cure the disease and everything that tends







to shake our confidence in Mercury as a cause  
 for *Sues Venerea* is pernicious in the highest  
 degree It has as has been already been observed &  
 asserted that the Venereal disease is less frequent  
 than has been supposed unless it is true occurs on  
 the genitals and that after a suspicious connexion  
 which are very doubtful whether they are venereal  
 or not Now the only inconvenience which we  
 subject our patient too is by concluding them to  
 be venereal is the salvation or Mercurial Action  
 While at the same time all doubts are done away  
 But on the contrary a very dangerous mistake  
 would be made where we to conclude a chancre  
 to be a simple ulcer and not venereal or we  
 should lay our Patient open to the danger of  
 a constitutional disease There sometimes occurs  
 a string or collection of small vesicles upon  
 the Epithelium of the glands generally upon  
 the Corona Glandis these are filled with a thin  
 straw colour pus The treatment is to puncture  
 the vesicles wash the head of the penis with brandy  
 and water after the cicatrix begins to be formed &  
 with water previously This disease is easily  
 distinguish from chancre by mere inspection  
 Observations on the proper administration of Mercury  
 1<sup>st</sup> I am by no means convinced that the saline  
 preparations of mercury are now liable to







produce fever than the others as stated by Met  
 Thias Calomel is my favorite & next the blue pill  
 Corrosive sublimate. I never use except in Abscess  
 and then always in combination with some nuce  
 catic as Opium. It has been lately recommended  
 by a Mr. Addington in the cure of Gonorrhoea  
 but I have doubt of the accuracy of his account  
 2<sup>d</sup>. The simple ointment made from the pure  
 and metal without any other addition is the next  
 most important part of the mercurial course it  
 should be well rub'd in on the thigh by the power  
 The rubbing the ointment well in is of great importance  
 3<sup>d</sup>. The Patient under a mercurial course should be confin'd  
 to the house and kept from exposure to the cold  
 4<sup>th</sup>. The Blue pill may be us'd when Calomel affects the Bowels  
 5<sup>th</sup>. The use of Mercurial fumigations has been lately re  
 viv'd by Mr. Abernethy who has invented an apparatus  
 to confine the fumes to the body. It was found on the con  
 tinent to be ineffectual to the cure of the disease but  
 the fumes of cinnaabag applic'd to the mercurial ulcers  
 of even the throat still remains a common practice  
 It is of singular efficacy in these cases as a local remedy  
 and deserves our confidence  
 6<sup>th</sup>. Mr. Blair has stated that rubbing Calomel or mercury  
 upon the Gums will produce salivation - useful in this  
 way as a local remedy only  
 7<sup>th</sup>. When the disease remains stationary we should examine  
 whether this be the effect of Dyspepsia &c. and if so the  
 mercury should be laid aside and mild ointment applic'd  
 to the sores







## Menagogues—

These constitute a class of ~~meds~~ supposed to excite the discharge of the Menstrual flux not only when suspended but after it has appeared but also when they fail to appear at a proper age. Doubts have arisen about whether or not we have any such ~~meds~~ from the uncertainty of their affecting the above indication we certainly have. They do not act directly upon the uterus but by combatting the morbid state of the system on which the suppression depends. Physicians have here in fact too much overlooked the nature of the disease they have to treat I shall not enter into any consideration of the Physiology of the uterus but content myself with observing that the menses are the product of a secretion as was proven by Wunter. Of Amenorrhoea including both retention when the menses do not appear at puberty and suppression when it ceases to appear at the stationary period the cessation not arising from pregnancy lactation &c much diversity exists in different climates constitutions &c as to the stated period at which the menses occur. When they do not occur at the age of 17 yrs and the symptoms of chlorosis are present viz Appetite depressed evening chill Plethora &c the countenance yellow Oedema of the Legs palpitations &c we may conclude the case to be retention of the menses to depend on a diseased state of the ovaries. Dr. Bullen's supposition







While Hamilton refers it to a depraved state of the alimentary canal. From any experience I am not decide between the two professors I shall only make two observations viz 1<sup>st</sup> That dissections seem to terminate in favor of Dr. Bullens Theory Dr. That the Practice of Hamilton is much better than his Theory — In this species of retained menses we are therefore to consider purgatives as the best emenagogues if indicated by the symptoms & afterwards Tonics But sometimes it is necessary to commence with an invigorating plan of treatment Exercise in the open air or on Horseback otherwise Tonics &c. Emetics have been found beneficial The warm & cold bath have both been employed Pede-  
lucium and last of all though not least Motu-  
mory The various accessory symptoms are to be combated by  
Means suited to them Removal to a warm climate has  
been successful when other means have failed  
Suppression of the menses has been cured by all the  
emenagogues This disease may be occasioned by a variety of  
causes generally exposure to cold anxiety of mind are  
the causes from which it arises and when the system  
is disordered the menses like other secretions becomes suppressed  
Physicians have erroneously considered the suppression of  
the menses to be a cause instead of a symptom of the morbid  
state of the system. When the suppression occurs from cold  
fever generally attends and the remedies for fever catarrh &c  
are called for Dr. Rush from generally finding it connected  
with a feeble pulse &c calls for the emmenagogue state of the system.



14 10



When the suppression is attended with or connected with other diseases these are to be primarily attended too. It is at the same time frequently necessary to use some of the Articles of the class of Emmenagogues. Of Particular Emmenagogues there are various and attention to the state of the system to which they are adapted is to be observed some are Purgative some Stimulant &c. Rhubarb this is a Powerful emmenagogue or Purgative and from the use of Purgatives being indicated in Amenorrhoea and from its being better adapted to stimulate the rectum than the others it is frequently employed in conjunction with Ferri &c. Hooper's Pill which is a common prescription of this kind is made as follows.

℞ Sulph. Ferri ʒss  
 Pulv. Cal. jalap ʒj  
 Gum. Myrrh ʒss  
 Hier. picra ʒss

Colomet has long been employed in conjunction with the above Pills. Hellebore has also been employed in the form of Tinctura Melampodii.

℞ Helleborus Nigr. ʒiv  
 Cochineal - ʒss  
 Alcohol - ℞ijss

Dose 30 drops a Day

This Article has been very long and generally employed. Dr. Cullen does not think much of it but it has lately gained much credit. Dr. Physick, Barton & Cheppman are partial to it the latter







employs it in the dose of 30 drops a day continued  
 2 or 3 days before the menses are expected if does not produce  
 certain effect in this dose he raises it to 60 Drops or a  
 Tea Spoonfull a day at the same time he employs  
 the semicupium and friction to the lower extremities  
 Guaiacum Dr. Dewees became dissatisfied from  
 frequently failing with the usual emenagogues  
 he tried the Juice of Guaiac in the dose of a Tea spoon  
 full and speaks of it in the highest terms in my  
 hands and in those of Dr. Physick it has likewise  
 failed Seneca has been introduced into practice  
 as an emenagogue by Dr. Montgomerie of this City Dr.  
 Chapman speaks highly in its favour it is given  
 in Decoction ʒij of Seneca to ℥j of water boiled  
 to ʒij Dose ʒij in the course of the day Chapman  
 has given it in the dose of ʒij every 2 hours it has  
 failed as well as many of my medical friends in  
 its employment It is no doubt however a very eme-  
 nagogue well deserving your notice I regret I have  
 used this Article in three instances it succeeded but  
 in one I think if it succeeds even in this number of  
 cases it is a valuable article Dose ʒij in Powder or  
 it may be exhibited in Decoction What particular  
 cases it will succeed in I know not  
 Savine This is a powerfull stimulant it is said  
 to have a specific effect on the Uterus Worme  
 recommended it in the dose of ʒss twice a day







The time of total cessation of the Menses is generally of great importance to females. The system is generally found in a plethoric state at this time disposing to inflammatory diseases this is to be corrected by a careful low diet of purging and a careful attention to avoid coitiveness at the period of the cessation of the Menses ulcers are apt to be formed on the legs these have been directed to be treated on drains but I believe less disagreeable evacuations as purges will be effective.

## Anthelmintics

These constitutes a list of Meds which are said to discharge worms which infest the alimentary canal. In the human stomach many animals are found some real worms others the Larvae of insects which have evidently been swallowed with our food. The Worms of the Intestines are various in kind & Situation there are 3 species of round worm and 1 of flat of the round 1<sup>st</sup> Lumbricoides (the ascaris Lumbricoides of Linnaeus) for a long time this worm was supposed the same as the earth worm which however is not correct the animal does not move in the same manner as the earth worm by shortning itself when first discharged these worms are semitransparent they are severly found in the large Intestines







2<sup>d</sup>, *Ascaris Lumbricalis* Ascarides or Maw worm  
 the Body of this species is about  $\frac{1}{3}$  the length  
 of the animal the rest being a tail They are gen-  
 erally found in the large Intestines and particularly  
 in Children They occur in great numbers

3<sup>d</sup>, The Tricube This is rare I never saw it

The Tinea and cucurbitinian which only differs  
 in length are the flat worms It is a *Hermonophora*  
 its length is sometimes very great extending frequently  
 50 feet This worm has been found in the Body of  
 Dead Born foetus Worms have been found in  
 various animals beside Man As a cause of disease  
 they have always drawn the attention of Physi-  
 cians, They abound in the Bowels of weakly Chil-  
 dren Accompanied with the following symptoms  
 Paleness of countenance livid circle round the eyes  
 itching at the Anus pain in the Bowels grinding  
 of the Teeth starting in the Sleep foetor of  
 the Breath &c Dr. Worme says, he has found  
 an invariable diagnostic symptom of the  
 presence of worms is an Oedematous swell-  
 ling of the upper lip and Alae nasi but I have  
 not found this to be the case Epilepsy Mania  
 Hydrocephalus and blindness have all been occa-  
 sioned by worms of which latter affection a case  
 occurred to myself I have known a patient with  
 all the symptoms of the second stage of Hydrocephalus







cured by a copious discharge of *Lumbricoles*  
*per Anum*. Dr. Wistar informs me of one case  
 of *Melancholia* resulting from worms which  
 was cured by their discharge. The *Febis Vermineo-*  
*nosologicae* I may have met with but acknowledge  
 my inability of distinguishing it from fever of  
 other causes. An Opinion has sometime been pro-  
 vailed that worms are useful tenants in the hu-  
 man Body acting as scavenger and Dr. Rush asks  
 if their total absence be not the cause sometimes  
 of disease. That worms may exist in the bowels  
 without doing good is evident from the numbers  
 which sometimes accumulate To expel them how-  
 ever as soon as possible is the duty of the Physician  
 for though I do not ascribe all the diseases of children  
 to the existence of worms yet their presence aggravates  
 and conducts those which result from other causes to  
 an unfavourable termination. Many of the Anthel-  
 mintics belong to the class of purgatives. Emetics have  
 occasionally evacuated worms by the Mouth. There  
 are others remedies which act by destroying the  
 life of the worms. Some of these act mechanically  
 others by their poisonous properties. The *Cathartic*  
*Anthelmintics* are the most powerfull calomel  
 has long been employed as an Anthelmintic it should  
 be given in large doses enough to produce its full







cathartic effect to a child 4 or 5 years old is 5 or 6 gr at night if it does not speedily operate to be followed by Senna tea in the morning The present fashionable Anthelmintic is 3 gr of calomel to 1 gr of Sulphur Ferri for three successive mornings to be by a purge of Rhubarb

*Chenopodium Anthelminticum*. The Jerusalem Oak Seeds and leaves these are to be made into a Tea with sugar &c and given to children 3 successive days and then followed by a cathartic the same to be repeated untill the worms are discharged this has long been employed as an Anthelmintic An Oil has been lately obtained from the plant which is an excellent anthelmintic in the dose of 3 drops for an infant the dose to be gradually increased for older patients say from 6 to 10 drops for patients from 3 to 5 years old The same dose sufficient for an adult The seed is sometimes employed in powder *Spigelia Marylandica* The vermifuge properties of the plant resides in every part of the plant it is generally given in infusion or Decoction - Decoction ʒj to ʒij of water boiled to ʒss Very alarming symptoms have sometimes arisen from the use of this m<sup>d</sup> some Physicians have ascribed the deleterious effect to the plant itself others to a plant which grows near the *Spigelia* & is sometimes with it



177  
The first of these is a letter from the  
author of the "History of the  
Republics of the United States"  
to the author of the "History of the  
United States". The letter is dated  
the 1st of January 1777 and is  
addressed to the author of the  
"History of the United States".  
The letter is a very interesting  
one and contains many valuable  
information. It is a letter of  
introduction and is written in a  
very friendly and conversational  
style. The author of the letter  
is a very well known and  
respected man and his letter is  
very well received. The letter is  
a very good example of the  
style of the time and is a very  
valuable document. It is a letter  
of introduction and is written in a  
very friendly and conversational  
style. The author of the letter  
is a very well known and  
respected man and his letter is  
very well received. The letter is  
a very good example of the  
style of the time and is a very  
valuable document.



I conceive that they generall arise from the  
*Spigelia* which is nearly allied to the narcotics  
 in properties The plant sometimes purges but  
 Dr Darwin <sup>in his</sup> makes the above observations  
 says he prefers administering calomel or Rhubarb  
 after it to produce an evacuation Dr Ylome  
 declares the *Spigelia* to produce no bad effects upon  
 the whole I think that the Med<sup>n</sup> should be administered  
 in combination with a purgative as Senna &c Mr  
 Lehman a druggist of this city vends a nostrum  
 against worms composed of equal parts of Senna  
 and *Spigelia* I have found the article to produce  
 vomiting in this form equally as by itself  
*Melia Azedarach* This article is possessed of  
 Narcotic effects like the *Spigelia* many respectable  
 practitioners think more highly of the *Melia* than  
 I do It is employed in decoction Dose a Tea cup  
 full I here mention many other vegetable anthel-  
 mintics but I am not fond of such extensive lists of  
 articles the efficacy of which is uncertain I shall  
 only here mention the *Scilliborus Foetidus* and the  
*Geoffrey Inermis* both of which have been extolled as  
 anthelmintics

Of the Vermifuge Medicines from the Mineral  
 Kingdom I now feel myself justified in enumerating  
 among the Anthelmintics this article R Carb Ses-3ij  
 Divide into 12 powders Pulv<sup>n</sup> Sulph Ses 3ij







Dr. Rush and Dr. Keen both speak favourably of this article.

Scill. Mureas Soda destroys the worms readily out of the Body and has also been found a favourable internal remedy Dose ʒss in the morning Dr. Rush originates it with Cochineal Dr. Keen administers it in Mucilages The above remedies are generally employed in cases of lumbricoides I shall now proceed to speak of Ascarides I have a patient labouring under Ascarides who experiences no other inconvenience than itching about the anus. Mania and Epilepsy have certainly occasionally resulted from the presence of worms (ascarides) Purgings ~~may~~ very readily relieve the symptoms and produce a discharge of worms.

Kiera Pura in the form of ʒj to ʒij of Brandy a tablespoonfull for a dose is frequently employed for this purpose.

Castor Oil has also been employed. When tenesmus is distressing Emollient Glysters have been injected Dr. Heberster has recommended as a remedy for Ascarides the Tobacco Injection. Camphor Tea made by moistning Camphor with Spirits & dissolving it in water (boiling) for a Glyster has been employed. The various Bitters have been in Injection of Iodoformic & Iodo the different mercurial preparations Sopa sulphurea Mureas Soda oil of Turpentine should in obstinate cases be employed in succession.







Of *Tenia* The symptoms denoting the presence  
 of *Tenia* differ little from those of the other species  
 except in a gnawing pain in the stomach. All the  
 above mentioned remedies have been here employed  
 but the Mercurial are particularly recommended  
 Iron is a very excellent  $\text{M}^{\text{d}}$ . I have employed the iron  
 filings in a case of *Tenia* with benefit dose a  
 teaspoon full for a child. Tin granular and filings  
 have also been recommended dose  $\text{ʒj}$  which should  
 be followed by a cathartic This  $\text{M}^{\text{d}}$  has been said  
 not to act mechanically. In Scotland wine boils  
 in pewter vessels has been found beneficial Dr.  
 Fisher employs an amalgam of tin and Mercury  
 in the dose of 10 to 15 grs in powder to be followed by  
 a purge Few Vegetable Anthelmintics are adapted  
 to this species — The last note that I shall  
 speak of is the Cowage the stiff hairs which  
 cover the pods are the part used This  $\text{M}^{\text{d}}$   
 acts mechanically one would naturally  
 suppose these specula would irritate  
 the Intestinal canal as well as the worms  
 but experience proves that this is not the case  
 as the Primæ Viæ are defended by their  
 Mucus & table spoonful is a dose for an  
 adult but it is not sufficient that we des-  
 troy the worms but prevent their reproduc-  
 tion this may be effect by the use of lime  
 water Chaly Beate the Bitter Tonics and  
 what ever contributes to the health & res-  
 toration of the Patient







# Stimulants

The Stimulants are divided into two species viz Diffusible and Permanent. The first of the diffusible stimuli I shall speak of is the volatile alkali or more properly speaking the carbonate of Ammonia for in the language of the shops they are both confounded. It is principal in the Low nervous Fevers they are useful in the Beginning of the real Typhus there is generally some increase if not inflammatory action here as I showed you in a former lecture this medicine is an admissible recourse must be had to purging but after the disease has progressed & *Subcultus tendinum* and other symptoms marking the low state if have taken place the volatile alkali together with good Madeira wine should be administered  $\mathcal{V}$  gr every 2 or 3 hours is the ordinary dose but I have given  $\mathcal{V}$  gr every half hour. A case which had fully shows the importance of the vol alkali in the Low State of Typhus fever. A student of  $\mathcal{M}^d$  a few years since while attending the medical lectures in this City was taken with the Typhus Fever and his case became almost hopeless he was finally







In every case where I have used it the Patient has  
 been relieved and if persevered in it ultimately  
 effect a cure It has also been a usefull rem-  
 edy in the hands of some in those cases  
 brought on by drunkenness A few drops of  
 the Watery solution of Pot Alkali has been  
 found serviceable in Cardialgia or the  
 following formulae

℞ Aqua Ammonia-  
 Cal. Magnesia aa. ʒj  
 Cinnamon Water ʒij  
 Cinnamon Po ʒij

of this a Table spoonfull is a dose. This  
 Formulae is excellent in that Gastric  
 affection known by the name of the sick  
 Headach If those who are subject to this  
 Disease will make use of this recipe after  
 each meal it will generall prevent the  
 Disease It will when taken for a week  
 or two effect a permanent cure It is a good  
 remedy in Gout in Indigestion Flatu-  
 lency & Cardialgia In Dysentery Carb-  
 of Ammonia has acquired some reputation  
 in this disease it is given in small doses  
 so as to determine to the surface it has  
 also been usefull in in Chronic Diarrhea  
 with long protracted debility of the Bowels &  
 when brought on by Dysentery & intemperance







In the class nervous perhaps there is not a disease in which this Ma is not usefull but in those diseases it cannot be ~~attended~~<sup>depend</sup> too upon to effect a cure it is only a Palliative It is exceedingly extolled in France as a remedy in Apoplexy I do not repose much confidence in it in this disease except in cases where it causes from gastric Affections It is a usefull remedy in those cases of Rheumatism of long standing which resemble Palsy I have done good with it in these cases in the Almshouse of this City From my own knowledge I have nothing to say of this Ma in Dropsy but it is said to be by those who have tried it a usefull remedy

The Carbonate of Ammonia is said to be a better remedy than Opium or Camphor in that disease which proceeds from Drinking to excess It has been used in Cancer and is said to have cured that disease & also in Scrophulous cases approaching the State of cancer it is said to have been successfully employ'd This Ma has been successfully exhibitd as an Antidote to the bites of venomous Animals & reptiles in some parts of the United States & also in the West Indies Dr Ramsey of Charleston in South Carolina







has related a case of this kind in which  
 the *M<sup>de</sup>* was successfully employed it should  
 be taken internally in large doses & the part  
 affected should be bathed with a solution of it  
 I have used it in allaying the pain and infla-  
 mation caused by the sting of Insects as the  
 Wasp and Bee the common hartshorn is  
 perhaps as good a remedy whilst it is highly  
 stimulating it raises action or if you please  
 excitement & produces healthy action  
 The ~~next~~ <sup>next</sup> Stimulant we shall speak of  
 is Camphor It is a peculiar principle of  
 Vegetable composition It is contained in  
 small quantities in Rosemary Sage and  
 other Aromatics It is procured in abundant  
 quantities from Japan from a plant which  
 grows in that Country It is procured in this  
 Country by sublimation It is hardly  
 soluble in water tho' it is completely in  
 Alcohol, Ether, Oil & lastly in Milk  
 From these Solutions It is precipitated by  
 the addition of water Doubtless have  
 long been ~~En~~ <sup>En</sup>tertained as to its principle  
 Medical qualities It was formerly and is  
 still considered by some as a Secretive but  
 there is no *M<sup>de</sup>* that more completely displays  
 a Stimulating Power







Its Stimulating powers has been completely  
 proven by Dr. Alexander & other European  
 Physicians & By Dr. Barton of this City  
 By experiment on Vegetables the Inferior  
 Animals and the human species In small dose  
 it increases excitement But pushed further  
 it induces convulsion & Death In every  
 febrile case it has been resorted too with ad-  
 vantage It has by many been resorted too by  
 with more confidence than too Opium as  
 being preferable My own experience will not  
 enable me to determine between the merits  
 of those two ~~are~~ no doubt they are both well  
 adapted to the Low state of Fever. In Typhoid  
 Fever after it has continued 4 or 5 ~~days~~  
 if the system requires stimuli we should  
 Alternate our remedies giving camphor Opium  
 & Vol Alkali The following is a good formulae  
 Opium &

*Speacachuanus* ʒss

Camphor gr. ~~LXX~~

Make into 6 powders or pills one of which should  
 be taken every 2 or 3 hours or oftener if symp-  
 toms require it this produces a moisture & relieves  
 nervous symptoms In small pos it is said to be  
 of service for the maturation of the pus tules It  
 is said by Boyer & others that if an ointment con-  
 taining camphor is spread over any part







it prevents the pustules from approaching on  
that part Many different opinions have  
been maintained respecting puerperal fever  
and some have been in the habit of employ-  
ing active stimulants in this disease my  
opinion is that the disease has its commen-  
cement in the uterus and frequently from  
the want of proper attention at the time  
of parturition the inflammation gradually  
extends to the abdominal viscera & to the  
Peritoneum the same remedies should be  
used here as for inflammation in general  
but perhaps when the inflammatory  
symptoms subside Camphor as a stim-  
ulant may be a useful remedy



It is not the intention of the Government to  
to prevent the free importation of  
the most important of our supplies  
been maintained in the most  
and more have been the subject of supply  
and more of the same kind in the other  
Government is that the other has to come  
urgent in the other and frequently for  
the want of proper attention at the time  
to maintain the system of commerce  
to the Government is to the  
Government the same system should be  
to the Government in general  
but the Government is not  
to the Government is not  
to the Government is not



In Chronic diseases the use of Ardent Spirits are  
are questionable. You should be very careful in  
prescribing them in Dupuy Dyspepsia &c. If the  
Patient has been accustomed to the use of it and will  
have it or the circumstances demand it in Dyspepsia  
it should be limited to a very small dose which is  
on no account to be exceeded. All kinds of strong drinks  
are very dangerous in these cases.

In Phlegmasia they are generally injurious in  
retrocedent & out they are however sometimes useful  
Aether is formed By a Distillation of Alcohol and an  
Acid its effects much like the Alcohol

Sulphuric Aether This is formed By distilling a thick  
and Sulphuric Acid and if any excess of Acid remain  
saturate it with Alcohol and distil it again this is  
a Stimulus highly diffusible it produces intoxication  
a warmth and glow &c its operation is very prompt and  
transient. It is adapted to the same cases as the Alcohol -  
as a Stimulant but not as a Tonic the dose is from 20  
drops to 3j or 3ss it is prepared with other Med<sup>cs</sup> so  
as to act less powerfull and be given more easily. The  
Anodyne Liqueur of Hoffman which is made by mix-  
ing together Aether and Oil of Wine the dose is 3j  
this is adapted to Spasmodic affections not so volatile  
as Aether and may be taken in a lump of Sugar  
Oil of Turpentine This is a Stimulant taken into  
the Stomach it produces warmth and powerfully







excites the system The Dose is  $\mathfrak{zj}$  In the Low  
 state of Yellow fever and in Typhus fever in their  
 very low stages this Mole is better than any other  
 Honey be beat up with the Yolk of an egg or sweet  
 oil still its taste is some what disagreeable  
 This is best disguis'd by the oil of Sassafras In spas  
 modic Affections of the Bowels it is useful as  
 a Glyster In Epilepsy it has been recommended  
 In those cases arising from tinea it has undoubtedly  
 done good but it has lately been said to cure the dis  
 ease when it does not arise from this cause by its  
 action on the Stomach

@ APRICUM. This differs very little from the other  
 spices they are all stimulants but this is the best  
 It is much us'd in the practice of the West Indies it  
 is much better suited to their diseases than it is to  
 ours Its effects are purely stimulating without  
 Narcotic Powers It warms the Stomach increases  
 the Circulation and excites the system generally  
 It is useful in some cases of Dyspepsia I have us'd  
 it in some cases with advantage as a palliative  
 the permanent cure depends upon restoring tone  
 to the stomach In Intermittents I have us'd it with  
 advantage In combination with Sulph of copper  
 it is useful

℞ Capsicum  $\mathfrak{ss}$  gr  $\mathfrak{ss}$  } 1 Pill  
 Sulph of Copper  $\mathfrak{ss}$

In Yellow Fever this is useful in the latter stages







Doctor Wright says he has cured it after the Black vomit has commenced. In this country there are but few well attested cases of recovery after the Black vomit. The dose is from 3 to 10 gr. It has lately been much employed in the Southern States in *Cynancher Magna*. After the use of Emetics it is used as a gargle as follows.

*IR* Capsicum ——— 2 Tablespoons

Murias Sodae — 1 Dr ~~Murias Sodae~~

Liquor bull — 1 lb

Vinegar Boiling 3 lb

It is said to separate the sloughs. The capsicum varies very much in strength. It is a safe ~~med~~ and there is no other danger to be apprehended from an overdose. It deserves to be more extensively employed.

*Piper Nigrum* black pepper. It is much like the other and applicable to the same cases. It is much weaker.

*Amomum Zingiber* Ginger. This article possesses powers of a warm stimulating nature. It is useful in low chronic cases. In flatulency it is very useful.

In some Affections of the Lungs it is very useful by relieving the stomach and flatulency of the bowels.

The following Recipe is very good.

Divide into 12 powders one to be taken every 8th morning	{	<i>R Carb Ferri</i>	38
		<i>Rad Aker</i>	38
		Ginger	3j







## Narcotics

These are those <sup>meds</sup> which produce sleep They are call'd Narcotics and also Anodynes but improperly as they produce these effects <sup>indirectly</sup> ~~immediately~~ They are properly Hypnotics For their general effects see Dr. Murray Materia Medica —

**Opium** This is a gum resin it is procured from the *papaverum somniferum* it is brought from Egypt Africa and other places it grows very well in this Country We find two kinds in the shops the Turkey & East India Opium the first is the best it comes in round flat Masses Alcohol takes up more than water the solution in Alcohol is much stronger than the solution in water The narcotic principle is in the gum and resin also combin'd with its other powers There is an astringent property Its Narcotic power resides in all the parts of the plant the extract is the best preparation it is made as other extracts are or by wounding the plant and collecting the liquids which exude As we procure it in the shops it is often adulterated It is the purest specimen of a narcotic and it is the strongest Stimulus I think it is both a stimulous and a sedative according to the Manner in which it is exhibitd When taken into the stomach it first increases the circulation & excites the system generally the pulse is variously and powerfully affected by a healthy person while the pulse was







at 70 in a minute 1 gr of Opium was taken and in 5 minutes the pulse was at 74 in 10 ~~15~~ it was 76 in an hour at 70 and it did not sink lower 2 1/2 gr were taken in half an hour the pulse was raised from 70 to 80 in a minute but in an hour it had fell to 64 After taking a large dose the skin becomes warm the pulse full quick but not frequent vertigo pain in the head stupor nausea and vomiting I have seen a great many cases of Attempts to commit suicide or accidentally swallowing large doses of Opium and I always find during the first half hour that the pulse is stronger full not frequent but quick This is the true Opium pulse After this temperature sinks From my own observations it does not immediately depress the system even when taken in very large doses but I have seen it when the patient has taken IVZ excite him highly very soon however the stupefactive stage comes on There is a case Gentlemen which requires your attention more than this where the Patient in a fit of desperation has swallowed a large quantity of Opium with the intention of committing suicide or has swallowed it accidentally I shall now speak of the proper Treatment because there has been much difference in opinion about the proper treatment and it has so happened that I have had very extensive experience in these cases The first symptoms are universal excitement







hilarity and serenity of mind The patient ap-  
 pears perfectly happy and in general perfectly  
 willing to take your <sup>meds</sup> appearing indifferent  
 about living or dying though they express a  
 hope that they have accomplished their purpose  
 sometimes they are however unwilling to take  
 any thing then force must be used the first thing  
 to be done is to administer Sulph. of Zinc and  
 Ipecacuanha these appear to me to be better  
 adapted than any other Emetics You are to give  
 Sulph. Zinc 3ss and Ipecac 3ss and frequently  
 repeat it every 10 minutes if this does not produce vom-  
 iting soon you must endeavour to excite it by tickling  
 the throat and fauces with a feather It has been  
 recommended to pour down diluting drinks but  
 that never should be done at this time it distends  
 the stomach and gives a larger surface for the  
 Opium to act upon but when the action of vom-  
 iting has commenced they may be given with ad-  
 vantage. The system being excited and the pulse  
 full and strong blood is to be drawn 20, 30 or 40 3 or  
 once In the next stage the sedative effects are  
 seen this arises from compression of the Brain  
 the patient is comatose with stertorous Breathing  
 pulse about 30 full & quick The first thing to be  
 done is if the cause still remains is to remove  
 it this is best done by an Instrument first used for







this purpose by Dr. Physick which is a catheter to  
 inject the stomach and draw out the offending in-  
 iuffer but you are not to understand me that this  
 Instrument is not to be used untill the second stage  
 if vomiting cannot be easily produced in the first  
 stage this Instrument is to be used. A flexible catheter  
 to be introduced into the stomach through the mouth but  
 if the Patient is not willing to submit there will  
 be danger of his injuring it with his Teeth then  
 it may be introduced through the nose water is then  
 to be injected and sucked out again the stomach by  
 this means to be washed out completely I have in sev-  
 eral instances used this Instrument with success and  
 think it one of the most important improvements  
 in Medical science Whether the Opium is extracted  
 or not the proper remedies are to be used in the  
 Second Stage they are Brandy and the next Brandy  
 and Water graduating the strength to the state of the  
 patient untill at length vinegar and water is to be  
 used External Stimulants are to be used at the same  
 time Sinapisms to the feet and legs rubbing the Body  
 with stimulating substances &c. Hoggins is. New  
 York has proved completely successful and if it is ever  
 justifiable it is when used to save the persons life  
 and when he has so nearly derived it by attempting to  
 destroy himself When Death affords an opportunity  
 of Dissection we find the stomach inflamed in spots







The effects of this ~~Matter~~ is very different in different persons. The Largest quantity that I have known to be taken at once is 36 grains the smallest dose I have known to kill was 3ss of Laudanum. I have dwelt longer on this subject on account of the difference of Opinion and on account of my own experience on the subject has been very extensive. Large doses produce sedative effects and small doses frequently repeated produces the same and produces the same effect as ardent Spirits does all the effects of a stimulant appears every part of the system is effected. The Physician should not prescribe Opium when it must be long continued if it can possibly be dispensed with for the same reason that it is dangerous to prescribe the use of ardent Spirits in these cases the same consequences result from the habitual use of Opium as from ardent Spirits when long habituated to the use of strong stimulents the Patient system become so Irritable that the least injury proves fatal, in these cases the habit must be broken, sometimes Spirits must be taken instead of the Opium for a short time, then Porter, this must not be long continued I think the Hops the humulus Lupulus a most excellent remedy, it has some Narcotic powers and is both a Stimulant & a ~~sedative~~ tonic. The hop Tea is proper coffee is sometimes useful.







The Patient is to be nourished through & this time with a great deal of care, and the Stimuli gradually decreased. By long use of it very large doses may be taken. Dr. Monro of this City had a patient who took ℥ij daily. We have no Antidotes to this article. The Medicine already mentioned are to be used purges are usefull in the latter Stage: its effects as a ~~the~~ are decided. It is the *Magnum celi donum*. It is to be given ʒi to relieve pain ʒi. In cases where excitement is necessary, then it is to be given in small doses and frequently ʒi. To induce sleep ʒi. To alleviate spasm ʒi. To refresh Hemorrhagy It is necessary to recollect all its effects. In Continūic fevers it is usefull after the inflammatory symptoms are subdued. It never should be given in the first Stage even in the second stage it is an Ambiguous remedy and when there is Delirium &c it is improper. It is undoubtedly both a Stimulant & a Sedative. It Stimulates, excites and then produces its sedative effect and procures sleep. For some of the symptoms as Watchfulness &c Opium and Speac in combination are proper but only in the second Stage. I have seen procured by a grain of Opium given before the Inflammatory symptoms were subdued. When the Patient is very weak Opium must be given. Delirium is very equivocal it arises from different causes when from debility it is attended with a ~~slow~~ mattering & then Opium is usefull.

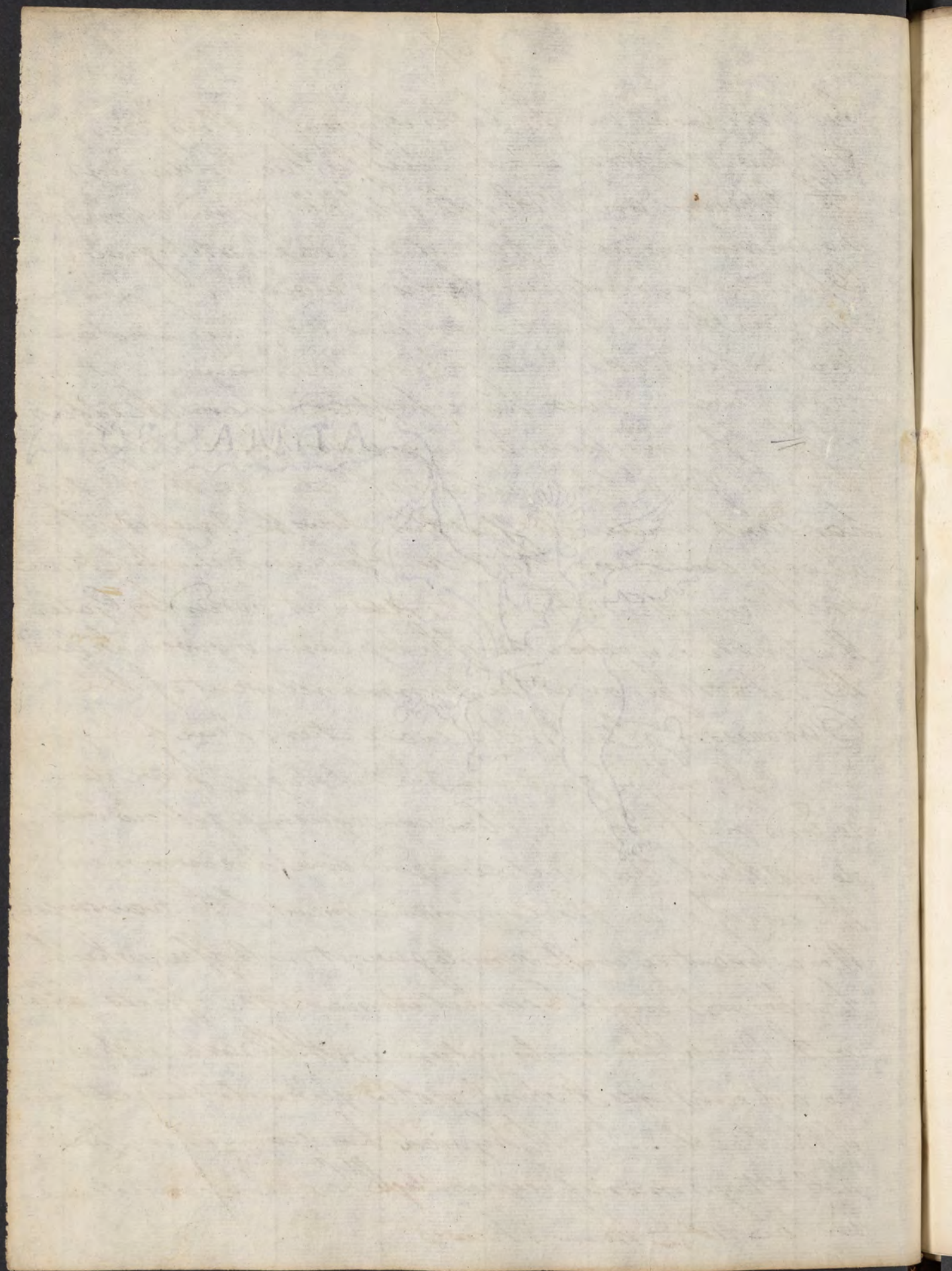


[illegible]



In Diarrhoea in the latter stages of yellow fever & Typhus it is proper. In Typhus tendinum the Opium and Volatile Alkali &c and as much nourishment as the patient can take is to be given. Opium in continued fevers is a very dangerous remedy and I think I have mentioned every circumstance that will make it necessary to administer it in those fevers. Cases have happened where the effects of the Opium from too large doses have appeared to cease for a time when all at once the Patient has sunk under its effect this shows the necessity of always watching the Patient for a considerable time. In Intermittent Fevers it is said it was used by Galen this practice is good when the Opium is given before the cold stage or at the commencement of the Paroxysm after proper evacuations have been performed. Dr. Sydenham gave it in the hot stage I have done so and not found any bad consequences follow but do not think the practice a good one, I recommend the use of it in the commencement of the paroxysm; it is a practice with some to give it in Coffee, which has been thought to correct its narcotic effects also with Acids. In combination with Bark it has no advantages. It should not be given to the exclusion of the Bark. Dr. Physick has given it in the hot stage more frequently & has more confidence in the Dr. than I have.







In Billious remittent Fevers it is usefull after bleeding and other evacuations so as to subdue the Inflammatory symptoms It has been prescribed to produce sleep in febrile cases sleep cannot without great difficulty, and when it is procured the Patient is disturbed with frightfull dreams and he wakes up fatigued and evidently injured by it. Sleep in many instances is much easier procured by the loss of a little blood; Opium is never to be used without preceding evacuations in fevers. In Phlegmatic Pain is what calls ~~for~~ particularly for Opium, when the pain is violent and the system is not much excited. Opium may be given without evacuating. In the suppurative stage Opium is recommended, it is undoubtedly safe and may be given before this time. In giving Opium we must ~~recom~~ compare the good effects likely to arise with the bad ones that may follow, and if we have more to hope than to fear from the remedy we should give it. The propriety of applying it external is doubted by some, I think some advantage may be gained by alleviating the pain the Opium is usefull to support the system when large abscesses exist. In Gangrene since the work of Mr. Pott it has gained much credit. I do not think he has given the relative power of two Articles with sufficient exactness. I do not hesitate to recommend the Bark also except in cases of Mortification from excess of Action. In surgical cases pain calls for Opium. In Injuries of the head you never give it because here the bad consequences to be dreaded are more than the







advantages derive but in local inflammation in other  
 Part of the Body as in Paronychia &c the contrary is  
 the case In Ophthalmia Opium is sometimes useful  
 In Pneumonia copious evacuations are necessary after  
 which Opium may be used it relieves the pain and cough  
 by a careful examination of the system you may make  
 it an expectorant. There are many formulæ for exhibiting  
 this Med. as an Expectorant the following is a good one

℞ Lig. Laudanum gutta 60  
 Vinum Antimonum 3j  
 Gum Arab — 3ij  
 El Anis — qv  
 Aqua — 3vj

A Table spoonfull to be given when necessary in  
 all the Inflammations it may sometimes be given  
 with advantage after proper evacuations In Chronic  
 Affections it is useful taking care always not to  
 produce a worse Affection by prohibiting the Habitual  
 use of Opium In Rheumatic Gout affecting the stom-  
 ach Opium Brandy and all the Stimuli are  
 to be used in some of these cases very large doses are  
 necessary In Cholera it is recommended it proves cathar-  
 tic by relaxing spasm it should be given after bloodletting  
 In Chronic Mania it is sometimes necessary &  
 Physick uses it in very large doses successfully  
 Lunatics requires very large doses of this Med. I think  
 that in many cases of insanity it may be used successfully







In Mania a potius it is particularly usefull  
 In Tetanus from wounds it is the best if not the  
 only remedy given in combination with Brandy  
 they are to be given very largely. Remember it is to  
 Tetanus from wounds that I am speaking of that  
 affection which you find every muscle stiff and  
 as hard as a Board For Heavens Sake Gentlemen  
 do not mistake you are not to give it in this Manner  
 in what is call'd Idiopathic Tetanus or that Hys-  
 teric Disease resembling Tetanus. If you do you have  
 not my authority for it It is the true Tetanus  
 from Wounds that I mean In Hydropthobia I wish  
 to see it more extensively employ'd though I believe  
 the disease has never been cur'd by it yet I think it  
 worth while to try what effect would be produced by  
 giving it in very large quantities It should be given  
 so as to produce an effect as strong as Death -

when the animal is in the state which  
 excites such a disorder to be given it is highly  
 improper. In the Cramp the nature of the  
 spasm is with similar irritation and is often  
 peculiarly aggravated by beginning the  
 irritation in the lower parts of the system.

In small Pox it is particularly usefull with  
 this treatment after the eruption is complete  
 when it is necessary to give the most violent







of the Patient. In Inflammation of the viscera of the Abdomen as Liver, bowels preceded by the depleting plan. In Dysentery it will alleviate pain always, be aware of its Stimulant power give it according to the state of the system. In Hemorrhages not connected with a state of highly increased vascular action opium is a valuable remedy by removing that state of increased irritability whence the frequency arises. In Menorrhagia Dr Cullen never found it useful. In Combination with the acetate of Lead it is much used on this as on many other hemorrhages. In Hemoptysis when the hemorrhage is caused by coughing in this it is useful by allaying the irritation by which coughing was excited but when blood accumulates in the      which excites cough and discharge takes place it is highly improper. In the Ercanthemate opium is employed with similar intentions and is often more peculiarly advantageous by lessening the irritation connected with the eruption.

In Small Pox it is peculiarly useful with this intention after the eruption is complete when it is copious and if the concomitant fever







be of the Typhoid the same advantage is derived from  
 it as in pure Typhus In Meckles the state of  
 the system being more purely Inflammatory it  
 use is rather contra indicated In Scarcities not  
 in the early stage not until the Inflammatory sym-  
 ptoms have been subdued In Dysentery in form  
 of *Errema* will quiet tormina-grisping &c 60 grtt  
 to 13 of Gum Arabic This I have already stated  
 is a fever Antroversa In Colic, both by mouth  
 and by ano it sometimes purges owing to the  
 Idiosyncrasy to its antispasmodic powers flatulent  
 Colic is relieved followed by *Errema* of *Al. Vicini*  
 Dr Billows colic after. Up and purging it  
 is often usefull and in flatulency a sing lactor  
 is of sufficient In Acute Phrenitis it is in-  
 misible but in Mania attended with torpid  
 state of the brain opium is used by Dr Physick  
 gave 27 gr a day with powerfull evacuations in  
 a recent state of mania and cured his patient in  
 4 weeks In this disease large doses of remedies  
 are always necessary In a case of insanity I have  
 given 40 gr a day in Melancholic it is invalu-  
 able and also in that species of mania from in-  
 temperance In Tetanus it is the only remedy  
 I refer to transmit considerably either a specific







or Rheumatism and require the employment  
 of *Op.* purges, diaphoretics I do not pretend to say  
 opium will cure it but it will do more than any  
 other *med.* It should be given in very large doses  
 carry it to the extent of producing stupor what-  
 ever quantity is necessary. The change of pulse and  
 narcotic effects are the coincident of these effects.  
 In hydrophobia I am desirous of seeing the  
 Opium carried to still greater extent and  
 surely in this case if any should we be justified  
 in proceeding with the use of it to a very dangerous  
 extent. In Epilepsy opium is useful in some cases.  
 Dr. Chapman supposes it a gastric affection but that  
 is often the case we do not deny but as it often arises  
 from other causes, remedies acting only on the ali-  
 = mentary canal should necessarily be successful. I have  
 given large doses to a patient at bed time his fits coming  
 on in the night but would not perceive it and good harm.  
 I do not however condemn it where aura Epileptica  
 takes place opium is serviceable as one of colds or  
 actual pain are symptoms when Cullen says opium is  
 useful. In Hysteria opium is valuable but as it is often  
 accompanied with high arterial action requires *N. S.*  
 to reduce it and the loose excitability. In asthma it



or Observation and require the employment  
 of the proper instruments, the best method to be  
 chosen will come to light in the course of the  
 observations. The first thing to be done is to  
 observe the state of the sky, and the direction  
 of the wind, and the force of the weather.  
 The next thing to be done is to observe the  
 direction of the current, and the force of the  
 tide. The third thing to be done is to observe  
 the direction of the wind, and the force of the  
 weather. The fourth thing to be done is to  
 observe the direction of the current, and the  
 force of the tide. The fifth thing to be done  
 is to observe the direction of the wind, and  
 the force of the weather. The sixth thing to  
 be done is to observe the direction of the  
 current, and the force of the tide. The seventh  
 thing to be done is to observe the direction  
 of the wind, and the force of the weather.  
 The eighth thing to be done is to observe  
 the direction of the current, and the force of  
 the tide. The ninth thing to be done is to  
 observe the direction of the wind, and the  
 force of the weather. The tenth thing to be  
 done is to observe the direction of the current,  
 and the force of the tide. The eleventh thing  
 to be done is to observe the direction of the  
 wind, and the force of the weather. The  
 twelfth thing to be done is to observe the  
 direction of the current, and the force of the  
 tide. The thirteenth thing to be done is to  
 observe the direction of the wind, and the  
 force of the weather. The fourteenth thing to  
 be done is to observe the direction of the  
 current, and the force of the tide. The  
 fifteenth thing to be done is to observe the  
 direction of the wind, and the force of the  
 weather. The sixteenth thing to be done is  
 to observe the direction of the current, and  
 the force of the tide. The seventeenth thing  
 to be done is to observe the direction of the  
 wind, and the force of the weather. The  
 eighteenth thing to be done is to observe  
 the direction of the current, and the force of  
 the tide. The nineteenth thing to be done is  
 to observe the direction of the wind, and the  
 force of the weather. The twentieth thing to  
 be done is to observe the direction of the  
 current, and the force of the tide.



it is very useful even when venisiction is indicated.  
 The latter is to be premised palpitation is frequently a  
 symptom of dyspnoea and I have commonly used Volatile  
 Alkali with very great success with or without opium  
 It continues a long time and we shall often be called to  
 prescribe for it. Opium will palliate but not cure.  
 In Angina pectoris small doses of Laudanum or  
 dyspnoea it will palliate some symptoms but it of-  
 ten causes that disease. In Syphilis it was formerly  
 much extolled. It is a valuable medicine during  
 during the exhibition of Mercury a sweeten  
 infusion as a gargle. I might here close the  
 account of them (discover), but shall consider its  
 use in surgery. To relieve pain it is employed in  
 almost every case of surgery. In Lithotomy opium  
 mixed with conserve of roses and made into Pills  
 Introduced into the rectum is the mode of giving it  
 it may be given in substance dose ℥ss  
 It is supposed to have a more permanent effect  
 The pills are made by rolling the opium into  
 small pills. I have considered this as one  
 of the worst forms of giving it when we  
 wish a speedy operation. The powder is  
 to be preferred. The form of pill is inferior







The powder of opium may be made into a pill  
 with conserve of Gum Arabic bread &c but  
 always to be fresh prepared. Where we wish  
 permanent operation give the opium of Pill  
 Laudanum of  $\mathfrak{z}$ ij of Opium to 1lb of ~~water~~  
 Alcohol One ounce of ~~Opium~~ <sup>Laudanum</sup> contains 96  
 grains of Opium, one Drachm Three &  
 half grains and Twenty five drops One gr  
 This is perhaps of equal importance  
 with any article used Laudanum kept  
 a considerable time the opium is deposited  
 super saturated liquor is ~~injected~~ the  
 Alcohol if the bottle is unworked the bottom  
 is much stronger in proportion to the  
 evaporation and deposition In those  
 circumstances I have known 2 drops of  
 of Laudanum produce Death therefore  
 be on your guard in prescribing stale  
 Laudanum 25 drops for an adult  
 to be varied very much 10 or 15 years 10 or  
 5 drops according to circumstances 7 gr  
 for a child within a year in some  
 cases we are obliged even to give it in  
 larger quantities when giving to a child  
 Within a year 1/2 Drop in a Teaspoon full



The Government of the United States  
 has the honor to acknowledge the receipt  
 of your letter of the 10th inst. in relation  
 to the proposed amendment to the  
 Constitution of the United States.  
 The same has been forwarded to the  
 proper authorities for their consideration.  
 Very respectfully,  
 J. M. Smith, Secretary of State.



In Yellow Fever at the last stage when Debility &c comes it is as proper as in the Low stage of Typhus It is best to give it in combination with volatile alkals in the Yolk of an egg or other secretions articles. With Camphor Opium has been combined Dr. Dooley gave this combination in Typhus fever given with the intention of procuring sleep but this cannot be accomplished when there is high excitement this will apply to every case where there is not a high excitement In the Phlegmonia Opium being employed is from its stimulating operation more doubt full and in any pure Inflammatory affection attended with highly increased vascular action must be hazardous where it is given so as to determine its action to the surface of the body and produce sweat it is often advantageously employed Particularly in Rheumatism or the other disease of this order where the Inflammatory stage has subsided, Its exhibition is occasionally necessary to obviate symptoms connected with Irritation In Pleuralgic and peritonitic Opium is not added by its stimulating effect to increase the disease but to alleviate pain In phlebotomy it is highly injurious depletion must in this can be carried to a high extent You have already learnt from the professor of surgery how to treat inflammation Dr. Physick & Chapman teaches you In Gangrene of the feet and toes of <sup>old</sup> people you have already been told by the professor of surgery







Mr. Pitt in it with decider effect. An aneurysmal case has  
 been ~~treated~~ dreaded to much of its stimulant effects  
 in these cases it is given in Tooth ache and Paronychia to  
 allay pain In Ophthalmia In this I shall say little of  
 its use In the acute stage it is highly injurious, often it  
 may be used to relieve pain as a Collyrium I shall speak hereafter  
 In Pneumonia is an excellent remedy after the Inflammatory  
 symptoms have been subdued it promotes expectoration  
 is if preceded by res. you may obtain its expectorant effects  
 In Pleurisy after the use of the Sacret is a valuable  
 In Catarrh when accompanied with fever and pain  
 in the chest is inadmissible but depleting remedies  
 are here valuable When cough mixtures are  
 admissible the following is a very valuable one

℞ Turp. Spirit ℥x

Ant. Wine ℥j or 4 gr of Spice  
 Gum Arabic 3 grs 3 of Siga-  
 bil Aniseed grs vi  
 Aqua 3 vi  
 Mf

Dose A Table spoonfull 3 or 4 times a day as  
 occasions may require Another formulae which  
 is Derived from Dr. Fothergill

℞ Bals Tolu Turp

Elix Pargan aa

Dose a Table spoonfull every 3 or 4 hours







In Pertussis, will relieve irritation, but never give it in recent cases always to be preceded by Op<sup>um</sup> &c where the Inflammatory symptoms are subdued & not till then  
In Pulmonary consumption in the latter stage when recovery cannot be looked for then it is valuable when sleep is attended with frightfull dreams with allay cough &c and is in this case advantageous

In Rheumatism it is given in form of Dover's powders but will not answer in it, inflammatory stage many of my patients in this stage have derived much more benefit by the use of the Sennet as our Anodyne In chronic Rheumatism It is a valuable med<sup>o</sup> In Syphilitic Rheumatism It is beneficial in combination with calomel so as to produce a ptyalism the opium will restrain the cathartic effects of calomel  
Gout. The same rule is applicable to this as in other inflammatory diseases In rheoedent gout opium is usefull Brandy applied to the pit of the stomach will relieve this in nearly every case I have given a relation of mine 1/2℥ of Laudanum but gentlemen do not quote my authority of giving such a dose and do not imitate me in this point commence with small doses untill you are acquainted with the Habit & idiosyncrasy &c







Fine Opium camphorate is more agreeable  
 to taste than Laudanum I never prefer the pre-  
 paration to Laudanum 10z contains 2 grs The Edinburgh  
 Dispensatory 10z contains 8 gr this is another objection  
 to the remedy 5 grs within a month A various  
 mixture of Laudanum is little used in this country  
 Mr. Ware recommends it as a Collicium A  
 watery solution is sometimes employed as an  
 injection. The use of Opium by the stomach is  
 precluded by nausea and other circumstances  
 Here we use it externally on in Enemas the opium  
 plaster is made by softening opium with oil  
 and spread on leather. Poultices with Opium  
 Here I have not much confidence in their prefer-  
 ring lead It is however useful in severe pain  
 as in Tooth Ach Hemicrania and the Colic  
 Canodyae Injections In common case we may use  
 Laudanum generally mixed with gum Arabic  
 Starch & water &c For Strangury succeeding  
 Blister and in Tremors it is very usefull  
 In some cases we are obliged to use opium mixed  
 with water and Starch In schorries of the rectum  
 and Arteris Si Excreant Some give opium  
 pills introduced into the rectum with  
 great advantage. I have now finished



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



with this valuable Article.

*Hyoscyamus* is an active article all parts  
all part have medicinal properties The extract  
is principally used. It has long been known as  
a Virulent Poison The effects are very an-  
alogous to those of *Opium* and next to that  
Article is most certain. Hypnotic The per-  
sist of the Eye is greatly diluted by this  
and other Narcotics. Were I able to ex-  
periment poison'd with this I should pursue  
the practice pointed out in speaking of *Opium*  
especially wash it out The dose is one or two  
grains gradually increased. It is principally  
used as a substitute for *Opium* whenever we  
are to avoid constipation Dr. Bancroft tried  
it in *Phrenia* and in one case with great  
effect In *Epilepsy* it is to be used only when  
*Opium* is contra-indicated Mr. Bruce recom-  
mends the squills with Nitric Acid in *Asthma*

℞ Extract of *Hyoscyamus* gr  $\text{ss}$   
Lime Squills gr  $\text{ss}$  X  
Nitric Acid - gr  $\text{ss}$  VI  
Water — ʒj

So far as I have seen this  
remedy it should be used  
in Lesser than is commonly recommended







I shall now speak of *Laurus Cerasus*, Cherry  
 tree Laurel (Europe) this does not grow in  
 the U.S. as the name implies bears a cherry  
 the Leaves are the part used they have an  
 odour slightly fragrant their taste is  
 extremely Bitter they possess a highly  
 narcotic quality if given in large doses  
 it produces Death without a struggle no  
 Inflammation is evident in the stomach  
 The operation says Cullen is various Dr. Sam-  
 gish tells us that  $\frac{1}{3}$  of the Infusion of  
 the ~~*Laurus cerasus*~~ will occasion more violent  
 and stronger effects than 5 or 6  $\text{z}$  will do The active  
 principle is highly volatile Chemists have long  
 supposed it to be the nature of the oils but it appears  
 to be prussic Acid This is the opinion of respect-  
 able writers that this acid is essential to the  
 Constitution of the narcotic and deleterious  
 principle of this plant it has been observed  
 that the odour of this Acid is similar to that  
 of the Cherry Laurel peach blossom and bitter  
 Almond We may prepare the Drug in form of  
 Infusion & Tincture Cataplasms of it has been  
 recommended by Cullen as useful in some  
 cases of spasm &c







Dr. Landish mentions that the powder of dried is much better and is held in greater esteem among the poor people in Intermittent fever - This is hazardous In Pulmonary Consumption it is given it recures ~~the~~ the pulse similar to digitalis Dose of the Tincture is 5 grs by infusion I have not employed it I commence to speak next of Atropa Belladonna Deadly Nightshade This has long been known as an extatic poison A native of Europe a perennial plant the whole of the plant is active but the leaves are preferred for medicinal use as being more uniform in strength. The Berries were used as an emodyc but are now laid aside In a moderate dose belladonna occasions sense of warmth followed by a diaphoresis and a disposition to sleep frequently with nausea and Head ache In large doses symptoms of intoxication vertigo sickness & thirst the pulse becomes low and feeble the pupils are dilated vision is impaired and these symptoms terminates in Convulsions coma or paralysis. Indication To remove the remote cause by giving large doses of emetics or Sulphur Zinci or by washing out the contents of the stomach in the last stage Stimulents &c to rouse the symptoms







When torpor comes on By long continued use may be gradually increased In Epilepsy 2 grains to 10  
Chorea, stroke, palsy, mania in febrile arterial action but in that state of the Brain accompanied with apoplexy it cannot be admitted It is said to be good in Intermittent Fevers I use it before the accession of the paroxysm Dr. Cullen speaks very highly of it in Cancer He says he seen a case much ameliorated but the Patient dreaded the effects of this Med<sup>o</sup> and laid it aside Dr. Dosey seems to discredit it It has been used for Hydrophobia Dr. Saunders first used it for Dilating the pupil in operation of the eye (congenital cataract) A Drop or two of the extract mixed with water is spread over the eye lid in  $\frac{1}{4}$  of an hour dilates the pupil, Taken Internally produces the same effect. Dose Extract of Belladonna 1 to 2 grs the leaves from 1 to 3 grains

*Conium maculatum* Hemlock Not Indigenous in the U.S. but grows in some parts of Pennsylvania Virginia and it grows best in a light soil. It is also called Licute The Extract or leaves are used Goats eat it without impunity. It is fatal to rabbits and Geese It is said Socrates owed his Death to it produces in small doses dimness of vision and nausea In large doses the effects as other narcotics







It has been given in Cancer in the dose of ʒss  
 Expressa since to ʒij Baron Hock was the first  
 who introduced Dr Dorsey says he has used it externally  
 and Internally, in genuine scirrhus and cancer  
 without any good effects I have used it in scrophula  
 he has found it Beneficial as an alterative with Mercury  
 In Leprosy it has also done good I have seen a case of  
 scrophula of 10 years standing cured by aucta and corrosive  
 Sublimate and cured the Patient in 3 months In  
 Ulcers from venereal it does a great deal of good combined  
 with the Salt Bath In those cases of venereal combined  
 with scrophulous it is to be used In restoring indolent  
 tumors In those cases of termination of Inflammation  
 where a coagulable lymph is thrown out into the  
 cellular texture producing tumor, sometimes mis-  
 taken for scirrhus in these cases purging V.S.  
 Mercury & Aucta are highly useful these tumors  
 sometimes occurs in the testicle and treated in the  
 same manner Genuine scirrhus of the Testicle known  
 by the lancinating pains. It has been given in  
 gangrene of the Loos of old people. I do not agree with  
 the professor of Surgery that -







I Believe opium as usefull as ciuta In Schivrous  
In Chorea At viti it is usefull but Emetics does more  
good In mania I have seen it and without any advantage  
Pulmonary consumption of the scrupulous kind  
Opium is good it Alleviates pain and this can  
be obtained from Opium

### Externall Applications

Internal. Powderd leaves and extract Dose 2 or  
3 grains increase gradually to 4 grains The leaves  
are to be gathered when the flowers are falling off they  
should be green Extract is made by inspuating the  
juice of the leaves up should never change the partake  
of any active medicine without experimenting with  
it as one parcel may be much more powerfull than  
another very frequently you will find one grain  
equal to 10 The leaves are to be dried before a gentle  
fire and kept secluded from light The following  
is the formulae which I employ ℞ Corrius sub 8 gr  
Ext of ciuta 64 grs

made into 64 Pills one to be given morning & evening  
Datura Stramonium An annual plant and  
very often called Thorn apple, Hunk weed  
most commonly ~~called~~ Jamestown Weed.



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 20 horizontal lines.]*



cattle frequently eat it with impunity on the human system it produces effects analagous to those from opium. Tetanus has been resulted from its use It dilates the pupil very much the iris is almost invisible I have seen several cases of this kind in children When large doses are taken the patient is treated similar as when opium is taken in large quantity Dr. Storck employs the extract leaves and seeds In Epilepsy In mania and some other nervous diseases Dr. Archer of Maryland observes he has given the Stramonium in epilepsy with advantage When the periods become regular He gave the seeds rubbed up with Gum Arabic in Pills of two grains every 3 or 4 hours a low diet is to be observed. V.S. when Epilepsy terminates in fatuity there is an organic affection of the Brain and no medicine will do good The seeds should be of a dark colour, In mania the medicine was tried largely in the Pennsylvania but with little effect. In Tetanus it has been used by Dr. Simms of Georgia has reported a case cured by it I think it is by no means so good as opium he also says that he never saw the disease recover from whom V.S. has been used In Asthma it has become fashionable to smoke the







the Stramonium internally It is much less  
 powerfull than Opium in this disease In  
 Consumption it has been employ'd but it should  
 not be prefer'd to Opium It has been us'd to pre-  
 vent the accession of the Paroxysm of Intermittent  
 fever in dose of two grains At Gutta serena  
 it has been us'd but without effect In operations  
 of the Eye it is us'd to dilate the pupil externally  
 employ'd Extract dose 2 grains increased slowly  
 to 15 grains Saturated Tincture from 10, 15 to 20  
 drops gradually increased made by filling a quart  
 Bottle half full of the seeds and filling up the  
 bottle with spirits. The leaves steep'd in Brandy  
 and apply'd to the pained part in Rheumatism  
 and in gout has also been us'd in Burns where  
 the ulcers are of the chronic kind In Hemorrhoidal  
 affections is beneficial in some cases Nausea  
 and vomiting sometimes arises from the ex-  
 ternal application of Stramonium and  
 Yewbane do not constipate like Opium  
 Nicotiana Tobacum Tobacco As a powerfull  
 antispasmodic we resort to it in strangulated  
 Hernia & Cholera in order to relax the stricture  
 us'd as a Glyster ʒj of the leaves to lbj of







of warm Water it is dangerous it is dangerous  $\frac{1}{2}$  only to be injected at a time Dr. Dorsey has given  $\frac{1}{2}$  of a Saturated infusion to a child in Tetanus without producing any effect In New England it has cured tetanus by Glysters Citron ointment cures  $\frac{1}{2}$  of the herpetic diseases also buttersaturated with salt Solution of corrosive sublimate calomel these are used in Letter also an infusion of Tobacco

*Humulus Lupulus* common hops. It is given in dose of 3 grains In infusion a Tea cup full Dr. Dorsey has cured several cases of Mania a potu with it Saturated Tincture is also a very good preparation used also in some instances as a Cataplasm Musk Vomica and several other narcotics might be mentioned but time Does not permit me to speak of them I shall therefore speak next of Antispasmodics

### On Antispasmodics

Spasm is an Irregular morbid action of the Muscular fibres and those Medicines which relieve it are called Antispasmodics



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On Antisiphonosis

...the ...  
...the ...  
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I do not know that we have any medicine which is entirely Antispasmodic I shall first speak of camphor Camphor is not the product exclusively of one vegetable but is contained in many plants especially those of aromatic kind diffused through their wood or bark and is often deposited from their essential oils when these are long kept the oils of peppermint, thyme, sage and several others afford it For the purpose of commerce it is obtained from a species of the *Laurus* the *Laurus camphora*, a native of Japan It exists in distinct grains in the wood of the root and branches of this tree It is extracted by sublimation the wood being exposed to heat without a quantity of water and the temperature thus communicated being sufficient to volatilize the Camphor In Europe it is purified by a second sublimation with the addition of  $\frac{1}{12}$  of its weight of lime. Pure Camphor is colourless semi-transparent, tenacious and somewhat unctuous to the touch its smell is strong and fragrant its taste is pungent & bitter, volatile, Acids dissolve it strong acids decompose it In large doses produces nausea vertigo convulsion







Death &c of its employment in diseases of its  
 mode of operation we scarcely know any article  
 of its precise operation. In diseases is only ad-  
 missible as a Stimulant article. The opinion  
 of old Physicians that it acts as a cooling and  
 sedative. I have no great experience of and there-  
 fore refer you to Cullen. In Typhoid cases where  
 opium and volatile Alkali In Intermittent  
 Fever I like many practitioners have exclu-  
 sively trust'd to it alone but better in combin-  
 ation with Peruvian Bark Although cam-  
 phor does not act as an Antiseptic it is well  
 known that Dr Seyberts Experiments have  
 clearly set aside the putrefactive state of the  
 blood In low states of Fever as in Sails & Hospital  
 it is usefull particularly in combination with  
 Vol Alkali and Opium In Puerperal fever  
 when the Typhoid state comes on it is usefull  
 but in all fevers in the first stage it is in-  
 admissible after the use of depleting remedies  
 In Phlegmasia It is occasionally us'd but  
 no Physician use it in the acute stage I con-  
 sider ~~the~~ <sup>it for</sup> pernicious article But in a chronic  
 state I agree with Dr. Barton that it is a  
 Subnarotic and usefull by producing diaphoresis







In chronic Rheumatism it has been used both internally and externally In Epilepsy it has been used but I consider it inert In Chorea St Viti it has also been used In Mania it has been used and tell me an article in the Materia Medica that has not been used in this disease In Puerperal convulsions I must refer you to the Professor of the obstetrical chair In Strangury it will relieve and prevent it from the use of scintillatives The dose of camphor is from 5 to 20 grains we may give it in larger doses I have seen it given to the extent of 3 j It is sometimes given in the form of Tea This is made as follows Pour a little alcohol on it then pour the camphor may be partially dissolved then pour boiling water on it This is a weak mode of giving it and it will relieve Strangury from Blisters It is also useful as an embrocation 3j of camphor dissolved in IV 3 of oil of Turpentine I shall next consider musk (*Moschus*, *Moschus moschiferous*) The animal which affords Musk is a native of the elevated regions of the East of Asia The Musk appears to be a peculiar secretion which is deposited







in a small sac situated high the umbilicus  
 of the male It is brought from China & from the  
 Indies in small membranous bags covered externally  
 with coarse hair The musk within is in grains  
 is slightly unctuous of a black colour having  
 a strong durable smell and a Bitter taste It  
 yields a Part of its entire matter to water by  
 infusion by distillation the water is impregnated  
 with its flavour Alcohol dissolves it the impurities  
 excepted. It is a volatile article and it is said that it  
 loses no weight of its use in direct I have not  
 much to say it is placed under the Class Anti  
 spasmotics Dr. Cullen supposes it a powerful  
 Med. In Tetanus. There is a case similar  
 to Tetanus in which it is used occurs in  
 drunkards and the form in which it is used  
 is as follows

℞ Musk  
 Vol alkali aa ℥ij  
 Gum Arabic ℥j  
 Aqua Fontana ℥iv

Dose a Table spoonfull every hour  
 I think much of this prescription in this case  
 It is much used in the Hospital







Dr. Roe of England used it in a particular  
 case of spasm of the throat with good effect  
 In Gout When the stomach and intestines are  
 in a spasmodic state I think it is beneficial  
 In Spasmodic Asthma much benefit has resulted  
 from its effects In Subcutis Tendonum I have  
 already mentioned its use in this Affection  
 and think it highly useful I have used it I  
 have seen a slight Narcotic effect from it Dose  
 4 to 10 grains I prefer it given in small doses  
 frequently 5 grains once in 2 hours It may be  
 given in form of Infusion & bolus but I prefer  
 it in the formulæ already mentioned also in  
 form of Enemata but it is so expensive that  
 I would not advise you to use it in this way  
 Artificial Musk has been made and it is said  
 to be as powerfull as the genuine Mode of  
 making it is as follows By Triturating  
 one part of oil of amber with four of Nitron  
 Acid added in small portions at a time  
 and stirring them together with a glass rod  
 The oil is at last converted into a yellow resin  
 having the smell of musk and is known in  
 Germany under the name of Artificial Musk —



Dr. Dear Sir  
I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
Yours obedient servant,  
J. B. [Signature]



Castor, Castoreum, castor fibre The beaver  
 and amphibious quadruped It is a native of  
 the North of Europe Asia and America castor  
 is a peculiar product collectd in cells near  
 the extremity of the rectum in this animal  
 It is importd of a superior quality of <sup>from</sup> Russia  
 and an inferior kind from New England The  
 former is a dry slightly unctuous of a reddish  
 brown colour intermixed with fibres and covered  
 with a tough membrane it has a strong unplea-  
 sant smell and Bitter acid taste and small  
 The Active matter of castor is dissolved by  
 Alcohol proof spirit and partially by water  
 The Tincture with Alcohol is least nauseous  
 Cullen says it is a powerfull antispasmodic  
 when given in large doses The Physicians  
 in the continent of Europe give it in mania  
 Epilepsy but I think it inefficacious Dose ʒ  
 10 to ʒo grains Fine one or 2 ʒ  
 Empyrenumatic Oil and several others are banished  
 from practice.

Carbonate of Ammonia is so difficult to be  
 retained on the stomach when added to em-  
 pyrenumatic oil that I prefer giving it alone



[illegible]



Oil of Amber I have seen it used in large doses in colic with benefit. In Gout does good As an embrocation I would not advise you to use it as it is so disagreeable use the others which I have already mentioned.

*Apsafoetida* *Stemula Apsafoetida*, Gum Resin This is so familiar to you all that I shall not dwell on the History of it. Some use it as a substitute for Garlic. In diseases we employ it In Hysteria every practitioner uses it Cullen says it relieves the peroxysm All the foetid gums determine to the lungs *Apsafoetida* has this effect and produces expectoration In Pleurisy and other Pneumonic diseases it is useful after the acute stage is subdued In the acute state it is injurious It is best after the Antiphlogistic plan has been resorted to In Asthma it is given to meet two Indications 1<sup>st</sup> to relieve spasm 2<sup>d</sup> to relieve flatulency In Pertussis though I have found nothing better given in aqueous solution formulae as follows

℞ *Apsafoetida* ʒij  
 Aque Rosae ʒiv

Dose a Table spoonfull every three hours to a child 1 year old. After purging with calomel







in the first stage you may find it highly use-  
full & does obviate the jaundice

In Pleurisy catarrh, croup &c it is much used  
Dr Rush found that to persons who took  
Opium & Brandy in excess it is highly usefull  
I have found the same. The dose is from 5  
to 10 grains my form of giving it is as follows  
Dissolve ℥j or sij in ℥iv of Rose water Dose a  
Table spoonfull. In Glysters it is much used  
in this form in ascarides with benefit and  
ajous to this Article but less is the Gum  
Limonice formulae in which it is used

R Gum Limonice ʒij  
Dissolve in Gum Arabic ʒviii  
Vinegar of squill ʒss  
Laudanum qtt ʒx

Dose a Table Spoonfull I have found this  
a valuable M<sup>o</sup> in chronic cough. Dissolve  
the Gum Limonice in the mucilage &  
add the latter Articles.

Valerian Officinalis, Wild Valerian, Radix  
Europe the root of this plant is the part used  
in Medicine consists of a number of slender  
fibres twisted and attached to one head of a  
light Brown colour having strong unpleasant smell







And a Warm Bitter taste If an Indigenous  
 plant of Europe Several kinds of valerian  
 grows in this country but are entirely different  
 from that we get from Europe Like all other  
 roots it yields its virtues to Alcohol Dr. Cullen  
 found it useful in Epilepsy Hysteria and other spor-  
 adic Affections is a Stimulant it excites the pulse  
 & sometimes acts as an emetic In Chorea St. Viti  
 it has been used with success In hemerania Dr  
 Serrius used it with success In Richter's work we  
 find it was used In Gutta serena nothing can  
 be more ineffectual than when this is caused  
 by a paralytic Affection of the Optic nerve  
 when it is the consequence of organic derang-  
 ment as of the Stomach it may be useful  
 In Fevers In low kind of Fevers it is used in  
 combination with Tonic and has done good  
 in this way It must be evident to everyone  
 of you that it is inadmissible in high action as  
 it is a stimulant As an Anthelmintic. There  
 no experience It is used in substance In infusion  
 Tincture In substance Dose ℥j to ʒj 3 or 4 times  
 In Day gradually increased  
 Crocus Sativus Saffron This is an article which ought  
 to be banished from the Botanic Medicine







I might mention the different essential oils they act as stimulants and carminatives we give them to render other m<sup>ay</sup> agreeable  
 Tar Tar Water and Tar Pills are used but I think the Tar Water is overrated when it is used it is made in the following manner  
 Take 1 pint of Tar and 2 gallons of water to be stirred for several days The Pills are made with Tar & flour. Tar Water is useful in chronic affections of the Chest as a Tonic I have given it with good success in scrophulous complaints

Warm Bath I might mention good effects of the Warm Bath results from its use in several diseases but the time is so short that I cannot speak of it

Garlic, *Allium Sativum* This as you all know has a strong odour like onions Medicinal qualities of Garlic when applied to the skin in a bruised state will act as a Rubefacient we often use it as a Stimulant Poultice It has been used in form of friction the expressed juice It has no more efficacy in form of friction than to rub the skin with a piece of wood







In deafness it is applied to the Meatus Auditorius  
 externus I prefer the Smect. of cantharides When  
 used Internally it is stimulant it increase the  
 pulse The cloves of Cardus are given in Melancholia  
 The disease in which it is given it passes always by  
 the kidneys and I am of Opinion that it is taken into  
 the circulation at least its odour It has been used in Inter-  
 mittent Fever As an Expectorant it is used. In catarrh  
 of the lungs Pertussis &c it is used with advantage but rec-  
 collect gentlemen it ought not to be given in high  
 excitement. I might mention many others but  
 time will not permit I shall now commence with  
 the Tonics

### Tonics

It is supposed that the difference between stimulants  
 and Tonics is that the latter are more permanent  
 in their action but this I altogether cannot believe  
 It is a difficult thing to explain the action of Tonics  
 The term signifies Medicines which strengthen  
 braced and gives tone to the muscular fibre I find it  
 difficult nor will I attempt to explain the operation  
 of Tonics They increase the tone of the muscular fibres  
 Tonics are those med<sup>s</sup> which strengthen the system  
 when debilitated Dr. Gregory says Tonics



In the first of a series of papers to be published in the  
course of the year 1840, I have endeavored to present  
some views on the subject of the influence of the  
climate of France on the progress of the  
disease in question. It is a subject of great  
importance, and one which has not been  
sufficiently discussed. The object of the  
present paper is to point out some of the  
causes which may be supposed to have  
contributed to the prevalence of the  
disease in France, and to suggest some  
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1840

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to suggest some means of preventing its recurrence.



operate by restoring due tension this is sceptical  
 I will retain the term tonics. Bitterness is a  
 concomitant of Tonics. Most of the Astringents are  
 Tonics. Tonics act primarily on the stomach  
 the action they excite in that organ is conveyed  
 to different parts of the system by sympathy  
 1<sup>st</sup> To the Muscular

2<sup>d</sup> To the Nervous

3<sup>d</sup>

4

5<sup>th</sup> To the cellular texture

6<sup>th</sup> To the blood vessels in all febrile affections  
 we know them to be propagated to the vascular  
 system. In Intermittent Fever tonics are prop-  
 agated to the vascular system.

7<sup>th</sup> To the skin







I might extend this further but I think I  
 have gone far enough. Are Tonics abraded?  
 I answer No. They act primarily on the stomachs  
 and the action excited there is communicated  
 to different parts of the Body by sympathy.  
 The State of the system has great effects on  
 the Administration of Tonics. Sometimes  
 Tonics diminish the power of the system.  
 I shall divide Tonics into vegetable and  
 Minerals. I shall commence with the vege-  
 table Tonics. First Peruvian Bark. This  
 is called by Botanists *Cinchona officinalis*  
 Peruvian Bark has been but a few centuries  
 ago. There are three kinds of Peruvian bark  
 at present met with in our shops. The Pale  
 the red and the yellow leaving undetermined  
 their Natural distinctions. The species of this  
 genus it now appears are numerous and  
 many of them natives of Peru and it  
 is not <sup>im</sup>probable that all or the greater  
 number of these constitute to furnish the  
 Peruvian bark of commerce according  
 to Dr. Powell the first is called *Cordifolia*  
*lanceifolia* (the pale bark) *Cinchona*  
*cordifolia* (yellow) *Cinchona oblongifolia* (red)







The first *Cinchona lamifolia* the tree which  
afford the bark is of considerable height The  
2<sup>d</sup> *Cinchona corallifolia* the bark is taken  
from the branches and trunk of the tree  
and dried 3<sup>d</sup> *Cinchona oblongifolia* the leaves  
are longer than those of the two former and  
of an oblong shape The tree which affords the  
Bark is said to be 100 feet high Much has  
been on the composition of the bark and the  
superiority of some of them which is unne-  
cessary to mention as time will not permit If  
you can by the red in pieces you may use  
it but in powder it is inferior to the pale as it is  
so adulterated by the smugglers That the yellow  
bark is prepared in this city Dr. of virgin  
made experiments on the Peruvian bark &  
found that it increased the pulse 5 beats in  
20 minutes Its efficacy in diseases is a powerfull  
Tonic Its tonic power is evident in Intermittent  
fevers Dr. Cullen remarks it is proper the  
use of the bark is even resorted too in its early  
stage by some practitioners, it is obvious that  
when Inflammatory symptoms come on de-  
pletion must be used as Bleeding purging  
Blistering &c and this sometimes cures the







disease It is proper before the exhibition of the Bark to give an Emetic In this district of country it sometimes occurs with visceral obstructions in such cases it is proper to attend to the viscera Mercury in these cases must be resorted to. If Mercury was given no viscera was affected it would be of no utility. The remedies for Inflammation of the Liver are the same as in any other Inflammation. The proper time for its Exhibition is before the paroxysm or during the latter stage of Intermission. It is so both in Tertian & quartan. Dose ʒj. There are advocates as respects the use before the paroxysm and Intermission we administer the bark as a Tonic to prevent the fever ʒj to ʒij to be given every hour or two In the west Indies they have given it in the dose of ʒj this John Bell would call rash practice In Infusion ʒj pulvis to 1 pint of boiling water make it agreeable with cinnamon give it every before the Paroxysm we often give the serpentaria in combination when there is an aplectic state before the paroxysm Bark is inadmissible till ʒij has been used







In Remittent Fever, it was given by some and is very useful after the depleting plan and the Inflammatory symptoms subsided.  
 In Yellow fever it was given by some when this fever raged in this City but always found it ineffectual and found to have aggravated the disease. In this of copiously is proper.

In Spasmodic Fever in low stages it is highly beneficial we resort in this stage, to warm all stimulents and Tonics. In Pestis or plague I never saw a case therefore cannot say any thing of its use. In Phlegmasia the Lancet is called for. In Rheumatism In our country it is Inflammatory and the Bark cannot succeed the use of the Lancet. In low Miasmatic countries Dr. Barton recommends it in this state of Rheumatism when it occurs in such places. In Podagra it is generally in the first stage Inflammatory and requires depletion. In Gout. Peruvian Bark is recommended.

In Dysentery it cannot be applicable in the first stage as it is Inflammatory but when in a convalescent stage it is useful.







It has been recommended in Pulmonary diseases In all cases which I have seen require the utmost use of the Lancet the state of the system - pulse &c will be your guide in the use of the Bark In Pleurisy of the head and chest the use of the Lancet must not be spared In Typhus Pleurisy the use of powerful Stimulants are highly beneficial In this case you must Stimulate The decoction and Linctus answers very well

In Consumption I have no confidence in the use of the Bark or any other remedy particularly in Tubercular consumption

In Erysipelas the use of Bark was much used in Europe but in this country bark is inadmissible depletion is required in this country In some cases of our Almshouse present prostration of strength in which the use of Tonics are proper In Eruptive diseases always keep the state of the system in view and you cannot fail

In Hemorrhages the use of Tonics are inadmissible In Epilepsy when a prostration of strength present Tonics are beneficial.







In Chorea St Viti Dr. Hamiltons plan of purging is beneficial this is a very intelligible disease I have not seen many cases of Chorea St Viti

Dr Letamius Dr. Rush & Dr. Hosack of New York recommends it highly Stimulants are highly useful in this disease but I prefer the use of powerfull Stimulants to Peruvian Bark

In Asthma in the latter stage very useful  
In Scurvy in combination with Serpentina & Bark is highly useful

In theophthalmos Dr. Fordyce recommends it in this disease and Ophthalmia but I should use bloodletting general and local

In Rachitis it is much used, Barks, Shower Bath, sea Bathing &c are useful as general remedies In Europe where Rachitis is much more frequent than in this country the invigorating plan must be used Exercise sea Bathing Application to Gangrene from the Professor of Surgery you have already learn that gangrene is preceded by Inflammation and gangrene unattended with Inflammation He must be in error who prescribes bark when of the







first kind it would aggravate the in-  
 flammation Bark has no Antiphlogistic  
 properties The cure is precisely the same as  
 when gangrene results from interruption  
 of the circulation. Bark cannot nor any  
 other Med<sup>ic</sup> is useful In gangrene of the  
 feet and toes of old people Mr Pott says  
 he has derived no advantage from he has  
 tried it in every shape So what species is  
 it particularly useful I answer to few  
 the use of Blister I have already mentioned  
 are useful Also Colic Kali. Opium &c  
 So gangrene unattended with inflammation  
 I want you to less on the high opinion of P Bark  
 In Poisonous Wounds Libbe Fontanna re-  
 commends it I have no experience in the use  
 of Bark in Poisonous wounds You will re-  
 collect that its employment in inflammation  
 is injurious and hurtful Mode of giving it  
 1 ℥ of Powder in wine Milk, porter small  
 doses are preferable to Large as they will sit  
 better on the stomach but it sometimes happens  
 that the stomach will reject it in substance then  
 for I shall mention some pharmaceutical  
 treatments Warm water clippes &c







more of it than cold water. We prefer  
 the aqueous preparations of Bark to alco-  
 holic preparation ℥j of P Bark to 1 pint of  
 boiling water and a little cinnamon give  
 1/8 part of this increase as circumstances  
 indicate The Decoction is preferable to the  
 Infusion The Tincture is not much used  
 and is made as follows Coll. Tinc cinchona  
 composite Vulgo Wharham's Tinc of Bark  
 ℞ Pulv Bark ℥ij  
 Seville orange peel ℥ss  
 Viag Snake root bind ℥ij  
 Saffron — ℥ss  
 Alcohol — lb ij

Digest for 14 days and strain

I have been in the habit of adding 1/2 to my de-  
 decoction this makes it very grateful The Tinc  
 of Wharham is such in Dyspeptic patients  
 but this is not so usefull as in aqueous solution  
 as in all chronic complaints it will by its  
 long continuance debilitate the primæ viæ  
 And will give a relish for a potent spirit  
 External applications the Bark Tinct  
 is sometimes used In Intermittent fevers  
 also in form of cataplasms & bath







but this is only auxiliary to its internal administration  
 If the <sup>Bark</sup> purges combine it with opium if it constipates,  
 combine it with magnesia and Rhubarb.

Gentian. Gentiana Lutea Radix, Germany, Switzerland  
 This root is in long slender pieces soft and flexible  
 of a yellowish colour with a grayish epicormis it  
 has a very bitter taste without any peculiar flavour  
 This Bitterness is extracted both by water and Alcohol  
 Dilute Alcohol is its proper solvent. It has been  
 much used in Dyspepsia, Nysteria and other nervous  
 complaints and is sometimes useful in rheumatism  
 It is used in Intermittent fever Dose 3gr In  
 Infusion Decoction and Tincture you will see the  
 different preparations in Coxes Dispensatory  
 Colombo of the plant which furnishes this root  
 no botanical account has been obtained it has been  
 It has been said to be brought from Ceylon but  
 from later writers it appears to be the produce  
 of Southern Africa It is in round thin pieces  
 evidently formed by transverse sections of the  
 roots. The circumference of them is covered with  
 a Bark the woody part is of a light colour (yellow)  
 it has an aromatic ~~small the root comes from~~  
~~in white bodies~~ an aromatic smell and  
 a Bitter taste It yields its bitterness to water







best proof spirit is its proper menstruum though the Lincture is not very strong This is a native plant growing in the Western part of the U.S. is a very important bitter The taste is pungent and Bitter somewhat aromatic The water come to us in wadded pieces Internally of a light yellow colour the medicinal property is a strong bitter it excites the pulse the watery infusion is always preferred to alcoholic preparation. It is used in Dyspepsia In Dysentery it has lost its former reputation In Cholera Morbus In this disease in the West Indies is much used but a quite opposite treatment is pursued in this country not giving it till the convalescent stage It is conveniently given in Powder  $\frac{z\text{ss}}$  which in urgent cases may be repeated every 3 or 4 hours In Infusion Decoction and Lincture it is given

*Quercia, Quercia Exalba Lignum West Indies*  
The wood of the root of this tree is of a yellowish white colour it has a taste intensely bitter without any odour or aromatic flavour The bitterness is extracted equally by water and alcohol The name was derived from a Negro Doctor of      it is adapted to mild cases of Dyspepsia Hysteria and Postagum







The wood is given in dose of X or XI grains but better in cold Infusion. Form of Infusion

R<sup>x</sup> Quapica ℥ss  
Waterquart }

The dose is not precise or wine glass full a dose Angustura. Dark a plant of the southern countries The bark comes to us in small pieces of a light yellow colour smell of somewhat acid Aromatic It was by some practitioners placed equal to the Peruvian bark but this is not my opinion My own experience in its limits you may give it in substance In Infusion. Similar Dose of the Powder ℥j or ʒij

Serpentaria. Virginiana Is a Perennial plant a native plant of America exclusively In Addition to the Tonic It is a Diaphoretic In this country it is extensively used but we have to give it in increased action as it will excite the pulse it slightly stimulates and is frequently combined with Peruvian Bark in Intermit tent Fevers In Typhus Fever It is also much used in combination with P Bark I have used it freely myself but as a Tonic & Alkali is better than Serpentaria as a Stimulant. In Remittent Fevers It is much







and in combination with the Bark given  
 in powder from  $\mathfrak{ss}$  to  $\mathfrak{zj}$  given in Infusion  
 By decoction its active properties is increased  
*Pruriens Virginiana* This grows in latitude  
 $44^{\circ} 29'$  It is given in substance Infusion &  
 Decoction the last is best Dr. Morris wrote an  
 Essay on it vide those who have access to it  
 would do well to peruse it It is given in Pul-  
 monary consumption I have used it with great  
 success and is highly useful in Febrile Fever  
 but it has been too much used in these complaints  
*Mathernis Nobilis chamamelum chamomile*  
 Flowers The bitterness with part of the odour  
 is extracted by water and alcohol and if the  
 Infusion has been made with warm water  
 the flowers yield a small quantity of Essential  
 oil chamomile is a powerful Bitter and  
 as such is useful in Dyspepsies forming a  
 powerfull remedy which is in common use  
 when employd For this purpose it ought to be  
 under the form of cold infusion which is the  
 most gratefull The Infusion in Tepid water  
 when strong acts as an Emetic and is often  
 used to promote the action of the other Emetics  
 In substance it has been given as a remedy







a remedy in Intermittent Fevers in a dose of half a 3 or 4 times per day Externally the Flowers steep in water are employed as a fomentation the extract which is intensely Bitter is convenient vehicle for forming Pills Especially when it coincides in virtue with the substance prescribed under this form It is frequently given as a Diaphoretic when given in warm water It is an ancient remedy in Intermittent fevers ~~Century~~ century. As much used as a Tonic but in my opinion is far inferior to chamomile *Cornus Florida* One of our own country production This is a very good Tonic grows in Latitude Dr. Walker wrote a valuable Thesis on *Cornus Florida* & *Cornus Sivecea* The dose is the same as the Peruvian Bark and is said to be equal to it but I use the Bark in preference to it *Cornus sivecea* cannot be procured in such quantity as the other therefore it is not much used

*Compositum Persoliatum* This I have already told you that it has an Emetic effect & Diaphoretic & it is also a Lonic



I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the Constitution of the State, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.



I might mention many more but the  
 course is so far advanced that time will  
 not permit but I must refer you to Cullen  
 and Murray's Materia Medica he mentions  
 many but thinks them far inferior to those  
 already mentioned I go on to speak of min-  
 eral Tonics. Of Ferum Iron nearly  
 like all other Metals in its Metallic  
 State is inert but when it is finely  
 powdered is usefull as a vermifuge it acts  
 Mechanically Chemists with its In-  
 dustry has investigated its preparations  
~~and~~ I speak of Carbonate of Iron when  
 the Metal is exposed to humid Atmosphere  
 Where the Metal attracts the Oxygen of  
 the Air is oxidized and also combined with  
 another part of the Atmospheric air carbonic  
 Acid which forms the salt There are two  
 carbonates 1<sup>st</sup> Carbonas Ferri precipitatus  
 prepared by adding a solution of carbonate  
 of soda to a solution of sulphate of Iron  
 washing and drying the precipitation formed  
 by the mutual decomposition But we shall  
 consider the Carbonate of Iron or Rubigo  
 Ferri which is superior Average doses







to 10 grains It may be given in larger doses but I prefer small doses its virtue is the same in small as in large doses Physicians are fond of Formulas It is therefore frequently combined with several Bitters & for the combination I refer you to Cox's Dispensatory I use it in the following manner in combination with bitters viz

I have sometimes used Rhubarb, and ginger is a very useful addition

Sulphate of Iron Sal Martis (copperas)  
In large doses causes vomiting of mucus  
I have no hesitation to recommend it in combination with Rubigo Ferri Muricatis  
Acid added to Iron form Muricatis of Iron  
This is employed under the form of Tincture  
This is prepared by dissolving the solution with alcohol Tinctura Ferri Muricatis  
is a very Active preparation sometimes to much so as to admit of its being used in an irritable state of the stomach It does in 10 or 15 drops diluted with water



[illegible]



out taken in wine The Tonic quality of Iron  
 has led to its use in Intermittent Fevers  
 particularly in combination with Peru-  
 vian Bark but in high excitement It is  
 prejudicial. In Chlorosis, Gleet &c also  
 much used in Marasmus of children The  
 Formulae which I have already mentioned  
 is very good one in this disease / marasmus / dose  
 proportionate to age I have derived much bene-  
 fit from this formulae After purging the  
 child several times Iron has  
 been given and recommended by Dr.  
 Carmichael this is vague and produces no  
 effect on cancer Dr. Barton supposes it to enter  
 the blood but this Dr. Chapman opposes several  
 graduates of this University also oppose it  
 Dr. Dorsey rather inclines to its entering the  
 circulation Aromatics retain it in the stom-  
 ach as Orange Peel &c

Cuprum. Copper To its chemical prep-  
 aration I refer you to the Professor of chem-  
 istry when copper is taken into the stom-  
 ach which it sometimes is by children  
 and it cause disagreeable symptoms  
 commonly you will find it evacuated



I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the Constitution of the State, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
 Yours, &c.  
 J. B. Thompson



in 48 hours but when Acidity exists in the  
 Stomach forms a Neutral salt as this sometimes  
 causes bad Symptoms we should give none nor  
 licent food & by doing this I have very seldom  
 seen any bad effects from it but they have  
 occurred Symptoms, nausea vomiting of Blood  
 convulsions, & syncope & death. I have seen a  
 Child which swallowed a piece of Iron and the  
 Iron passed in a short time I once saw the Anus  
 lacerated by a piece of Bone accidentally swal-  
 lowed which passed the Anus. A Ptyalism some-  
 times takes place when copper has been taken  
 Dr. Barton relates such a case

The Ammoniac of Copper / Ammonium  
 cupri / It is prepared by saturating sulphate  
 of copper & carbonate of Ammonia together and is  
 either a ternary compound of oxide of copper  
 ammonia & sulphuric or a mixture of sulphate  
 of ammonia & the compound of ammonia with oxide  
 of copper. It has been much used in Epilepsy cases  
 in which it has been employed no relief was afford-  
 ed I never used it myself freely & never seen it be-  
 efficacious Dose  $\frac{1}{2}$  grain gradually increased  
 given 2 or 3 times per Day Doctor Russell gave  
 8 grains 3 times per Day







Dr. Dicks recipe

Flowers of Zinc 3j

Cuprum Ammoniacum 3j

Winters Bark - - 90

Syrup - - - 90

Dose 1/3 of a grain of cuprum Ammoniacum  
In large doses it acts as an emetic therefore use it  
in small doses as a tonic In Chorea stiviti  
is used I have used it in one case without any advantage  
Sulphate of copper has been recommended in  
Intermittent Fever Formulas in which it is  
given

℞ Sulphate of copper ʒv } divide into  
Capsicum ʒ3 } 8 pills 1 pill  
3 pr day

I have used it in this formulae it produced  
nausea Dr. Monroe thought it useful when  
it nauseates It is used in surgical cases Dr. Physic  
used it in this formulae In sore throat and I  
have used it myself and with many

Sulph of copper ʒj }  
Peruvian Bark 3j } as a gargle  
2 or 4 1/2 of water

A solution is used as Collyrium in ophthalmia  
when collyriums are useful or indicated  
Tin has been used as a tonic I have never seen  
it used as such I use it as an antihelminthic as already  
observed



Dr. J. B. B. B. B.

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Dr. J. B. B. B. B.



Argentum If considered a Perfect Metal The only preparation we have of it is Nitrate of silver Form of making it

This is generally used as an Escharotic was once used as a Tonic in Epilepsy and is again revived. I have used it in Epilepsy but without any benefit Dose  $\frac{1}{8}$  of gr in form of a pill you make it into a solution and mix it with crumbs of Bread and make a mass of it and form it into pills In all of your pharmaceutical preparations make it: dose  $\frac{1}{8}$  or  $\frac{1}{4}$  of a grain It has been given in larger doses Nitrate of silver as an escharotic is much used it does not act entirely as an escharotic but also as a Tonic & Stimulant

Gold I have very little to say on this metal Dr has called the attention of Physicians to one of its preparations he says the minute is the best preparation of this Metal he extols it in Syphilis & I have known it tried & completely fail (in Syphilis) I would rather see a specific for a Cancer than for the venereal as we have mercury for the latter disease which by its proper use will cure Syphilis

Zincum Zine In its metallic state has no effect on the human body An oxide of it has been used in Epilepsy & Sulph of Zine Flowers of Zine







like Blue Vitriol it has an excess of Acid Dr.  
 Barton has used it in Epilepsy In Pertussis it  
 is much used. In Palpitation of the Heart when  
 it arises from Dyspepsia is usefull it is given in  
 Solution in the following Manner

White Vitriol when combined with Laudanum  
 is much used as an Injection in Gonorrhoea viz

℞ White vitriol  $\text{℥}$  or  $\text{℥ss}$   
 in  $\frac{1}{2}$  Pint of water

Laudanum is sometimes added

When Irritation exists, Hernia Humoralis and  
 Strictures are the consequences when too strong it  
 is not to be used any other Injection, untill Inflammatory  
 action is subdued This is applicable to all Injection

of Zinc this is formed by adding to a solution  
 of acetate of Lead a precipitate formed which is an

acetate of Zinc a decomposition takes place the  
 Acetic Acid unites to the Zinc and the sulphuric  
 Acid of the Zinc to the Lead My formulae as  
 an injection for the Gonorrhoea is as follows

Acetate of Lead  $\text{℥ss}$   
 Sulphate of Zinc  $\text{℥ss}$   
 Aqua —  $\text{℥ss}$



The first object of the present work is to  
 present to the public a new and complete  
 edition of the works of the late  
 John Locke, Esq. in which all the  
 errors of the former editions are corrected  
 and the text is brought to the most  
 authentic state.

The second object is to add to the  
 works of the late John Locke, Esq.  
 a new and complete edition of the  
 works of the late John Locke, Esq.

The third object is to add to the  
 works of the late John Locke, Esq.  
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Printed by J. B. Smith, at the  
 Press of the University of  
 Cambridge, 1743.



This is to be used after the Inflammatory action is over  
 Bismuth is an Oxide much use of this Metal  
 in Dyspepsia Dr. found it highly useful  
 in Dyspepsia In this City it is not much  
 used I have used it on one case with tolerable  
 advantage 3 or 6 grains 2 or 3 times per Day in Symp  
 Arsenic This is another semi metal oxygen converts  
 it into an Acid when heated a garlic odour is very  
 perceptible and this is important in Medical Jurispru  
 dence insoluble in water & changes vegetable blues  
 It is easily converted into Arsenious Acid by adding a  
 portion of Oxygen to it but shall retain the term  
 of White oxide of Arsenic It is obtained from dif  
 ferent Metallic ores as cobalt & Nickel Voste  
 is acid & sparingly soluble in water In small  
 doses of few grains I have seen it kill and upon  
 Dissection the cardiac portion of the stomach  
 inflamed Dissections of others have found it  
 Inflamed Dr. Physic has found the stomach  
 gangrenous Symptoms Nausea burning sen  
 sation impeded respiration convulsions & death  
 a violent Vomina to prevent its bad effects Oil  
 may be used and Emetics as Tartar Emetic Sulph  
 of Zinc In France Sulphuret of Potash is  
 used as an antidote but this is too feeble



The above is a list of the specimens  
 of the genus *Phrynosoma* which  
 I have collected in the State of  
 Texas. The first is a young  
 male, the second is a young  
 female, the third is a young  
 male, the fourth is a young  
 female, the fifth is a young  
 male, the sixth is a young  
 female, the seventh is a young  
 male, the eighth is a young  
 female, the ninth is a young  
 male, the tenth is a young  
 female, the eleventh is a young  
 male, the twelfth is a young  
 female, the thirteenth is a young  
 male, the fourteenth is a young  
 female, the fifteenth is a young  
 male, the sixteenth is a young  
 female, the seventeenth is a young  
 male, the eighteenth is a young  
 female, the nineteenth is a young  
 male, the twentieth is a young  
 female, the twenty-first is a young  
 male, the twenty-second is a young  
 female, the twenty-third is a young  
 male, the twenty-fourth is a young  
 female, the twenty-fifth is a young  
 male, the twenty-sixth is a young  
 female, the twenty-seventh is a young  
 male, the twenty-eighth is a young  
 female, the twenty-ninth is a young  
 male, the thirtieth is a young  
 female, the thirty-first is a young  
 male, the thirty-second is a young  
 female, the thirty-third is a young  
 male, the thirty-fourth is a young  
 female, the thirty-fifth is a young  
 male, the thirty-sixth is a young  
 female, the thirty-seventh is a young  
 male, the thirty-eighth is a young  
 female, the thirty-ninth is a young  
 male, the fortieth is a young  
 female, the forty-first is a young  
 male, the forty-second is a young  
 female, the forty-third is a young  
 male, the forty-fourth is a young  
 female, the forty-fifth is a young  
 male, the forty-sixth is a young  
 female, the forty-seventh is a young  
 male, the forty-eighth is a young  
 female, the forty-ninth is a young  
 male, the fiftieth is a young  
 female, the fifty-first is a young  
 male, the fifty-second is a young  
 female, the fifty-third is a young  
 male, the fifty-fourth is a young  
 female, the fifty-fifth is a young  
 male, the fifty-sixth is a young  
 female, the fifty-seventh is a young  
 male, the fifty-eighth is a young  
 female, the fifty-ninth is a young  
 male, the sixtieth is a young  
 female, the sixty-first is a young  
 male, the sixty-second is a young  
 female, the sixty-third is a young  
 male, the sixty-fourth is a young  
 female, the sixty-fifth is a young  
 male, the sixty-sixth is a young  
 female, the sixty-seventh is a young  
 male, the sixty-eighth is a young  
 female, the sixty-ninth is a young  
 male, the seventieth is a young  
 female, the seventy-first is a young  
 male, the seventy-second is a young  
 female, the seventy-third is a young  
 male, the seventy-fourth is a young  
 female, the seventy-fifth is a young  
 male, the seventy-sixth is a young  
 female, the seventy-seventh is a young  
 male, the seventy-eighth is a young  
 female, the seventy-ninth is a young  
 male, the eightieth is a young  
 female, the eighty-first is a young  
 male, the eighty-second is a young  
 female, the eighty-third is a young  
 male, the eighty-fourth is a young  
 female, the eighty-fifth is a young  
 male, the eighty-sixth is a young  
 female, the eighty-seventh is a young  
 male, the eighty-eighth is a young  
 female, the eighty-ninth is a young  
 male, the ninetieth is a young  
 female, the ninety-first is a young  
 male, the ninety-second is a young  
 female, the ninety-third is a young  
 male, the ninety-fourth is a young  
 female, the ninety-fifth is a young  
 male, the ninety-sixth is a young  
 female, the ninety-seventh is a young  
 male, the ninety-eighth is a young  
 female, the ninety-ninth is a young  
 male, the one hundredth is a young  
 female.



even externally applied To Ulcers has caused such symptoms when Nausea &c occurs you must not abscise from its external application. Preparations of Arsenic / are several / I shall only mention a few Dose of Arsenious Acid  $\frac{1}{16}$  of grain Fowler's solution is made in the following manner ~~40 or 50 drops~~

10 or 15 drops 3 or 4 times in Day for an adult gradually lessened for a Child 3 yrs old 3 drops for 4 yrs 4 gtt 5 yrs 5 gtt &c Darwins preparation has no preference to Fowler's solution and the latter is more used. This mode is latterly much used in Intermittent Fevers. I have used it freely where Peruvian Bark has failed. There are many cases in which one is preferable Dr Barton remarks that the Arsenic is inactmifible in Typhoid cases of Intermittents. It may be advantageously employed in remittents of Children. They will take Fowler's solution where the Bark cannot be retained when the pulse is action & Irregular. I found the Arsenic usefull







It does not Stimulate & does not cause head  
 ache. It puts a period to the existence of our  
 Intermittent fever in a short time. Per-  
 vicin Bark cannot be given in the hot  
 stage but for other solution can I have  
 No doubt when given in large doses it may  
 do harm in the hot stage Dropsical swelling  
 will result from its long use but this is  
 rare. It is a Tonic & there is no proof that it  
 has no Tonic power. It is a Tonic there can be  
 no doubt but great many prejudices exist against  
 its use and it is therefore necessary to conceal the  
 name of it in our Administration and I am  
 sorry that it has extended to Physicians. In  
 Periodical Headache it is useful as well as a  
 Bitter Tonic In Rheumatism Dr. Barton  
 has long been in the habit of using and rec-  
 commends it highly In Hemorrhage it  
 has been used but I think it not adapted to it  
 in this Disease In Chorea St Vitii & Asthma  
 it is used but I think without advantage  
 In Scrophula It is used (already) as you  
 have been told by Dr. Whipple In Eruption  
 resembling the Venereal Eruption it thought  
 & unruicable



I have not a moment to spare for the  
 writing of this letter, but I have  
 determined to write a few lines  
 to you. I am not at present in the  
 habit of writing letters, but I have  
 the thought in my mind to do so  
 at times. I have not a moment  
 to spare for the writing of this  
 letter, but I have determined to  
 write a few lines to you. I am  
 not at present in the habit of  
 writing letters, but I have the  
 thought in my mind to do so at  
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 few lines to you. I am not at  
 present in the habit of writing  
 letters, but I have the thought  
 in my mind to do so at times.



In Cancer - It is used both externally & internally  
 by it is an ingredient of several nostrums  
 for this Terrible complaint but I think it  
 not deserving of so great encomiums bestowed  
 on it in this disease I advise you to read  
 Sir Everard Holmes work on Cancer before  
 you use it in Cancer In Cancer of the  
 Uterus I have used it in vain I might mention  
 some many more cases in which it has been  
 used but our time will not permit me to  
 say any more on the Subject

I shall next proceed to speak of Sulphuric  
 Acid This is a valuable Tonic Pile in its  
 Action may be taken in water (which is the proper  
 vehicle) about 20 or 30 drops to 1 pint of water  
 Chlorine of Nitric is made by

This is generally preferred to the acid it is more  
 agreeable. If you use the Sulphuric acid  
 if it is very strong 2 or 3 drops will be sufficient  
 for 1 pint of water This Acid is used in many  
 cases of Debility. It is said to restrain Diaphoresis  
 and Epilepsy it is used but in this disease is an  
 useless medicine An Ointment in the following manner follows







Nitric Acid. If used in form of Mucilage  
Nitric Acid 3j

Solution of Gum Arabic ʒ VI always  
make it secundum artum i.e. pour nitric  
acid on the Mucilage and not on the gum  
Arabic. If used in Gonnorrhoea, Hepatitis or  
the West India. It is used as a Tonic in some  
of Venereal It was used & highly extolled in  
Syphilis by Dr. Smith a graduate of this University  
of Charlestown & Caroline made it the subject  
of his Inaugural dissertation who made a  
number of experiments vide his Thesis he places  
it on the same footing as mercury in Syphy-  
lis but this is certainly erroneous It is now  
found to be inefficient in Syphilis in  
which disease it has been so highly recom-  
mended.

Muriatic Acid has properties analogous  
to Nitric Acid and in the same diseases  
as Gonnorrhoea &c in which the latter is used  
We pass on to speak of Astringents In the language  
of Cullen astringents are those which







But there is not the case some medicines  
 long keeping hemorrhage will increase  
 the quantity of blood by increasing the  
 Dr. Cullen exemplifies the action of  
 astringents to the tanning of leather it must  
 however be evident that the analogy between  
 living and dead is different astringents do  
 not chemically act on living matter. By  
 making our impression on the stomach  
 we check hemorrhage of different parts of  
 the system we have abundant proofs that  
 they have an effect of putting a stop to  
 hemorrhage in distinct parts as the uterus  
 nose lungs & intestines &c. Such Poterri  
 has this power in a short time they cannot  
 be absorbed for such a small quantity as  
 a taker of Lead taken into the <sup>circulation</sup> ~~stomach~~  
 could not have this effect in so short a  
 period as is evident to all medicinal men  
 Astringents, over stimulents & Tonics they  
 are used in Intermittent fevers some writers  
 have denied the existence they say astringents  
 are Tonics if those gentlemen will give  
 proof that Tonics will suppress hemorrhage  
 then let us place them under the class Tonics







But this is not the case Some instead of suppressing hemorrhage will increase the discharge of blood by increasing the vascular system Tannin principle the test of this principle is gelatine / forms leather This principle is often united to Bitterness On the long wood the Astringent principle is united to the saccharine I shall next speak of the Individual astringents <sup>they</sup> are bitter I shall follow the course of my predecessor in commencing to speak of the Individual articles

Extract of Catechu this is obtained from plant a species of Mimosa The extract is obtained By Boiling and evaporating It is a gum resin leaves an astringent taste in the mouth it strikes a Black colour with salt of Iron contains an Earthy substance I am in the habit of using it in ulcers (cf Ulcers from Bileboed) Of its internal administration I have not much experience Dr. Benton used it in Intermittent fever in combination with columbo Dose 15 or 20 grs with Syrup







In England it is much used in spongy  
gums Analagous to its properties we  
have Kino Dr. Fothergill speaks of it as  
a new gum it is said to flow from a tree

The best Kino is generally obtained Dr.  
Murray of Edinburgh whose work is prob-  
ably in the hands of you all who speaks of  
it saying Kino of New Holland is similar to  
that from Africa The Analysis from Kino  
is not different from Catechu Dose 10 or 20  
or 30 Grains in the course of the day sus-  
pended in mucilaginous mixtures It is  
also given in Linctus In Intermittent  
Fever Dr. Barton used it with success where  
Peruvian Bark &c fails It is given in inter-  
hemorrhagy In Gonorrhoea it is given as an  
injection but it is generally in two large  
doses. In Diarrhoea I generally use it in  
this City & I use it in the following  
prescriptions

A Table spoonfull every 2 hours	}	℞ Creta Preparata ʒss
		Kino ʒss
		Mucilage mucosavilitice ʒss
		Laudanum — att ʒss Crine more small quantity Pulg ʒss Brandy ʒss



22

*[Faint handwritten notes at the bottom of the page, possibly "Lester's Office"]*



In Pyrosis Dr. uses it and speaks highly  
 of it In Diabetes he also gives it in combination  
 with opium R<sup>x</sup> Opium grss  
 Opium grss

Quercus This species of Oak is different numbers  
 the bark of all of them is astringent the black  
 oak is said to have less astringent power Dose is  
 ʒss to ʒj The oak Bark is used in dysentery as  
 a gargle In Tetters a strong decoction is very  
 beneficial Galls are excrescence of oak and  
 is said to be caused by a deposition of an Insect  
 Eggs of the synops kind The heavier they are  
 the better Aleppo kind are the best In Infusions  
 change a vegetable blue to white owing to the  
 Gallic Acid It is used in all cases in which  
 the Peruvian bark is used. In Intermittent  
 fever I never use it always use other remedies  
 In Dysentery is used Give it in the fol-  
 lowing manner that is when Astringents  
 are indicated R<sup>x</sup> Pulv Galla ʒj  
 A little cinnamon  
 Boils in ʒj of Brandy

When Diarrhoea is chronic or chronic form  
 this is a valuable remedy. In hemorrhoidal  
 affections it is generally made into an ointment



10



which is a popular remedy It is also used  
 in prolepsis. And In C. betit is also used  
 Sium Campechianse Logwood this is  
 much used in Dysentery especially in children  
 Cerevium Moutatum grows throughout  
 the United States. used in Bowel complaints  
 Cholera Morbus & Dysentery It is generally  
 given in Decoction with Milk  
 Black Alder The Bark is said by Dr. Moise  
 to be good in Gengivitis may be tried in Inter-  
 mittent fevers In Herpetic Eruptions

Gooseberry Not an article much used  
 by Dr. Chapman every part of the plant  
 is active It is given in the following man-  
 ner In Cholera Infantum

13 of the bruised root to 1 lb of water Boil  
 a Table spoonfull In Dysentery In Dysentery  
 & Diarrhoea it is also used It is an astringent  
 but I think it not so powerfull an astringent  
 As we use







# We go on to speak of the Mineral Astringents

**Iron** In a Metallic state as Dr. Cullen remarks is void of Astringent powers. is evident in its restraining severe evacuations but this might be owing to its Tonic power & find it difficult to say how it operates / probably meets with some hindrance in the Alimentary canal when it checks Semivivac it may be considered as Antistimulant

**Copper** Several of its preparations is used as a Collyrium as Blue vitriol This latter Preparation is much used as a Collyrium in Ophthalmic

**Silver** I do not know that any of its preparations, have any astringent powers

**Zincum zinc** Much used as an astringent (its preparations) as a Collyrium

**Plumbum Lead** In its metallic state is not used as a Medicine Its preparations are extensively employed Acetate of Lead This is frequently employed as an astringent in many cases External applications It is often used as a Lead water poultice as a Collyrium Internally it is much used







Persons employed in Manufactories of this  
 Metal are sallow and pale and are subject  
 to a disease call'd Colica pituitum In Lead  
 Mines poultry are affected in the same manner  
 Painter Glaziers printers Stone cutters  
 Apothecaries &c who are frequent effects with  
 this disease this owing to their working with  
 it It is not however Gentlemen to be considered  
 that Colica pituitum cannot be caused  
 without Lead being its remote cause Copper  
 Antimony &c are sometimes the remote  
 cause When taken in large quantities into  
 the stomach produces serious consequences  
 Happily that Nature vomiting &c comes on  
 & the stomach ejects it Probably the best  
 Method of Preventing or lessning the effects  
 is to give an Emetic & evacuate the bowels  
 with a Cathartic the Colicini will answer  
 very well The primary effects of Lead  
 on the system is said to be stimulant In  
 of many Cases who made experiments on the  
 puloe consequently is a stimulant Dose  
 from 5 to 2 gr but it has been increased to ʒi  
 without Inconvenience Dr Barton gave the  
 Rhoe In Obstinate but somewhat he gave it







it in cases where Peruvian Bark & Opium  
with success. The cases in which I used it it had  
no effect I do not think much of it in Intermittents  
In Epilepsy It has long been used It is said to  
to be beneficial especially in young people  
it must be continued long whether it is use-  
full I cannot say I never used it

In Pertussis It has been used in Europe but  
it does no good It has been recommended in  
Tetanus it must act by inducing a new  
disease. Gum & the diffusible Stimulants  
are the best remedies in this case

In Mania It has again & again been used  
I have never seen it used In Melancholia  
the same remarks are applicable to Melan-  
cholia as mania

In Bowel complaints It is used as an astringe-  
ant & sedative In inflamed parts externally  
it is found of great service but it is not known  
whether it will act in this way on the in-  
flamed part of the stomach & bowels. From  
the cases which I have seen it is used with  
this intention no good result as it will cause  
a disease called Colic pitonum  
I think it injurious







Sugar of Lead is indirectly a secretive Dr  
Barton tried it in Cholera Morbus but  
never continued the practice In Hemorrhages  
& Epistaxis in the form of an Injection  
In Hemorrhages It has been said by Dr

Heberden to be a specific But this is not  
the fact applied directly to the open mouth  
of the vessel and internally in those hemor-  
rhages where the pulse continues active not  
withstanding. It has been given (and is yet)  
in Epistaxis Hemoptysis & Hematemesis &  
hemorrhages of other parts as uterine hemorrhage  
with good effect the dose is about ʒj at short  
Intervals the dose has been increased to ʒss  
10gr Dr. Barton recommends ʒj of opium  
to be combined he also combines Speciebus annae  
with it An Unguentum is made of acetate  
of lead which is much used

White Lead because acetate - sub acetate of  
lead is made into an ointment which re-  
lieves pain & Inflammation I have seen  
it used in Burns Where Dr. Kentish ap-  
plication was inefficient with benefit

It is made as follows II ʒj ceruse  
Lig Lead  
Lig Lead  
Olive oil  
In hemorrhoids this ointment  
is much used & I have used it with  
great success



I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the matter of the application of the said John A. Smith for a license to practice law in this State. The same has been forwarded to the proper authorities for their consideration.

Very respectfully,  
 J. A. Smith



Sulphur Aluminis The astringency is manifestly test Dr. Cullen used it in Inter mittent fever but remarks that it was to Irritating and wisely laid it aside Dr. Darwin thought it well adapted to bowel complaints. In Cholera Morbus combined with Lendacium In Hemorrhage it is much used Dr. Thompson gave it in large doses In Leucorrhoea it is used In Gonorrhoea it forms a very good astringent As a collyrium it is often used you will find a prescription in the Elements of Surgery

Burnt alum I have already mentioned when speaking on escharotics

Creta Praeparata carbonate of lime pure lime is used as an astringent the cretaceous mixture is much used in Bowel complaints and is useful in Diarrhoea it retards it In Dysentery we use the medicine but not before the bile is evacuated then it is benificial A Formulae  $\mathcal{R}$  prep chalk  $\mathfrak{z}\mathfrak{j}$

Opium gr 15

Spice — gr 15

into 8 powdles 1 to be

given every 3 hours or 4 — to a child 5-6 yds 1/2 the quantity







Chalk Lute  
 If made as follows

Muriate of lime & Barytes in scrophulous  
 and many other diseases is much used and  
 as much experience as I have had I am  
 sorry to say that we have no cure for those  
 diseases which invade our unhappy citizens  
 happy would it be for the Medical art to  
 have a specific for this dreadful disease  
 (scrophula)

Voluntary Address  
 LXXV

Friday. February 28<sup>th</sup>. 1817

Manuscript Notes taken by J. G. Clark  
 Including 62 Lectures Delivered by  
 John Henry Dancy M.D.







# Epispastics.

Epispastus, I shall make this term include three ~~first~~ different degrees of Epispastics. 1<sup>st</sup> Rubefacients, 2<sup>d</sup> Vesicatories and 3 Caustics as they only evacuate locally. I do not hesitate in placing them at the bottom of our list as they possess a stimulating property they form a kind of connecting link between the Evacuants & Stimulants 1<sup>st</sup> of Rubefacients, there a theory and modes of exciting a Rubefacient effect friction & in cases of crowned persons palsy & Pneumonia Typhoides frictions have been found very beneficial among the chemical remedies heat may be used and is generally attended with good effects, Blisters, hot Corn &c these Articles have been recommended when speaking Diaphoretics but it is on account of their local stimulant effects I notice them here the practice of Burning with moxas is still practicable on the continent of Europe however it is only practised in extreme cases Dr. Physick employed it in a case of Lymphatic with good effect the use of warm water has been tried in many cases as peronchias &c but I am inclined to think that a Blister would answer







better in low cases of Fever it has been used  
 I prefer for this purpose heated osets as they retain  
 the heat better, the water cools too soon and really  
 leaves the body in a colder state than it was  
 before the application of the cloths particularly if  
 they have remained on a short time. In hysterical  
 cold feet is attendant and is relieved by warm  
 Water, brims &c In Gout of the stomach heat ap-  
 plied to the stomach is an excellent application  
 In Rheumatica Throat by the application of heat  
 relieve the pain, several chemical preparations  
 have been used as Vol alkali & Olive oil in equal  
 proportions, you make an irritating liniment  
 it is found good in Inflammatory affections of the  
 throat it is a very popular remedy in this country  
 in some cases of Rheumatism it has been found  
 beneficial. One of the most beneficial Rubefacients  
 we have is Oleum Serebinthaceum in inflammatory  
 affections of the throat nothing is more beneficial,  
 you know by exciting inflammation externally  
 you relieve inflammation internally by mixing  
 Ol Serebinthace 3℥ss Camphor ℥j you have  
 what is called white heads essence of Mustard  
 & with some simple additions you have what  
 is called Lipsots Drops, Turpentine has been  
 used in Burns &c we are indebted to Dr. Hunter







for this practice it ought to be carefully applied  
 on the diseased part and not let any of the ointment get  
 on the sound part. It has got in some measure into  
 discredit with some practitioners in consequence of  
 their Novel way of applying it. The odour of <sup>the</sup> ~~Med~~  
 is best disguised by the Oil of Sassafras. I saw it save the  
 life of a child by immersing it in a bath of Turpentine.  
 I might here mention all the essential oils also as  
 Rubefacients, but I do not wish to add to the list.  
 There ought to notice camphor, but as I spoke of  
 combining it with Turpentine I shall pass it by.  
 I do not intend to forget the Tart Emetic as I observed  
 once before it was a Rubefacient and a very power  
 full one by sprinkling a little Tart Emetic on  
 a Plaister of Burgamy Pitch and applying it  
 on the part it will in the course of a short  
 time produce a great irritation. when it has  
 continued long enough take off the plaister  
 and I shall notice some of the Cataplasms of  
 these I might enumerate many but will only  
 notice a few the most simple of these is the  
 Larrinaceous articles mixed with vinegar & salt this  
 composition is often used in cases of children when we  
 want to add to the irritating properties of the plaister  
 you may use Garlic Horse radish &c. The garlic  
 is preferable to the latter but mustard is better







is better than either in cases of extreme debility and in cases of fever where the system is in a low state Mustard 1 part Vinegar 6 parts Rye flour Three parts of Cataplasm and applied one found usefull this is my common application in those cases in the most extreme violence of Gout apoplexy coma &c we use Mustard & Rye Flour in equal parts as Mustard & vinegar alone. I have more than once seen Gangrene result from the application of the latter so I would advise you to be cautious in its application you ought to examine frequently and when redness appears take it off. I have used the Cayenne Pepper with great advantage we are next to speak of Vesicatoria they are those medicines which when applied externally produce a discharge from the skin there are many articles which produce this all those which I have noted as Rubefacients increased to a certain degree produce a discharge from the skins but we will notice them which are more properly called vesicatories.

*Cantharides* For the natural History of these insects I refer you to the different writers on the subject In France, Spain & Italy they are very plenty it appears they were known to Hippocrates. The Arabians took more pains to discover their properties than their predecessors.



*[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side. It seems to consist of several paragraphs of handwritten text.]*



They found them usefull in apoplexia & Leth-  
 argic cases no particular directions is necessary  
 to make the Plaister only be carefull to press the  
 flies well into the Ungentum which being pre-  
 viously spread on Leather &c by not paying attention  
 to this particular not a sufficient quantity of flies  
 will adhere to produce the desired effect in many  
 cases the Ungentum cantharides may be appli-  
 cable. This is to be made by finely powdering flies to  
 Ungentum Basilum untill the ointment can take  
 up no more this form may be particularly applicable  
 in affections of the Eyes &c for the purpose of exped-  
 iting the Blistering process the Spt of Turpentine  
 Has been used by Dr. Hawthorn of this City I have  
 used it and found it to assist the Blister very much  
 the part to be wet with the Spt of Turpentine & the  
 Blister sprinkled &c. Sometime Gauze has been  
 used in order to prevent stringing from an idea  
 that the flies were absorbed &c, when using of cantharides  
 this wholly unnecessary, as respects the dry plaister.  
 I cannot say that Gauze is really necessary it is  
 usual to sprinkle vinegar on which is proper  
 the average time for a Blister to remain on is about  
 6 or 8 hours you will recollect however that on the  
 Head it must remain on 24 hours. The Water discharging  
 is <sup>not</sup> different from that of the serum of the blood



*[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side.]*

8



Blisters like Bleeding & purging are applicable to certain stages of every disease Dr Percival resumed their application under 3 different heads

1<sup>st</sup> When the action of the muscular fibre is too weak

2<sup>d</sup> When the action is irregular

3<sup>d</sup> When the action is too strong

This includes every state of the system

In Fevers, Blisters have for many years have been considered as the first remedies they are used in every stage of fever but it has been found that they do little or no good in the first stage of fevers Dr Rush says When the system is prepared they act like a conductor to carry off all Morbid matter if applied too early or too late they are not found to answer good effects I believe that much harm has resulted from applying them too late the blistering point Gentlemen I wish not to consider as mathematical but after the proper remedies as V.S. & purging has been used then comes the use of Blisters it is all one what point the system is at the application to be carried to the extent of the violence of the disease Does Yellow Fever require more Bleeding than any other disease why not more blistering I have in the Yellow Fever frequently applied as high as I in Blisters. In cases of Phlegmonia with the







general inflammation or Phlegmonia with local  
 Inflammation blisters act the same when local or  
 general they just yield as readily. for vomiting &c  
 you generally apply a Blister on the stomach where  
 as to apply a Blister on each Wrist will produce  
 the same effects Dr. Cullen says too much has  
 been ascribed to the discharge produced by the Blister  
 he says they act by their antispasmodic power - I do  
 not deny. I do ~~not deny~~ that fevers is produced by  
 spasm. The phrase that they act by equalizing  
 excitement I abhor, but will say that they act  
 by exciting inflammation externally you relieve it  
 internally yet ~~the~~ the same degree of Inflammation  
 is the same how it is I cannot say but so it is the  
 effect result in order to prevent stranguary as it  
 sometimes it does occur and where Barley water  
 Gum Arabic Tea is allowable you must use  
 them but in most cases they are not allowable.  
 The best remedy I know and to be preferred to the Barley  
 Water, Gum Arabic Tea is an emollient ~~Emollient~~  
 and it generally relieves stranguary occurs very  
 irregular In Syphion cases I Remark the utility  
 of Purgatives and in some of those low cases  
 Blisters will not rise & under those circumstances  
 they generally terminate in Gangrene. When there  
 is any doubt existing as respects the blister not  
 rising in consequence of the state of the system







being very low, under those circumstances you must  
 apply them on the upper extremities in preference  
 to the lower, as it is found that its upper extremity  
 retains the power of life much longer than the lower.  
 In the Phlegmasia they are found highly beneficial  
 in those cases these two actions seem to do good by  
 stimulating the vessels of the skin externally. &c.  
 In Mania you shave the head and apply a Blister  
 externally which when Inflammation is produced,  
 the disease is relieved internally.  
 In Pleurisy you apply a Blister on the Thorax.  
 In Ophthalmia you produce an Inflammation externally  
 in those diseases which Dr. Rush calls intestinal  
 state of Fever they are very usefull as in obstinate  
 cases of Diarrhoea they may be applied on the abdomen  
 sometimes in this disease. Medicines are found to  
 have no effect until Blisters are used. In Spasmodic  
 they are usefull as in convulsions, Asthma & Epilepsy  
 &c. they have been recommended by Hoffman &  
 many others of the older writers in those diseases.  
 In Pulmonary Consumption they are good  
 and in some instances have been attended with  
 the most happy effects by applying them  
 on the Thorax. In Cynanche Trachealis  
 after bleeding emetics & purges Blister is of great  
 advantage in all other anginous affections.







In Cynanche Parotidea ( ) when the  
 testicles inflame the application of a Blister is  
 recommended In Scarlatina Dr. Barton recommends  
 a Blister behind the ear and in all diseases in  
 certain states. They act by evacuating & by a  
 specific impression. Blisters Put an immediate  
 stop to gangrene Dr. Physick always resorts to blisters.  
 It has universally succeeded a strip is placed over the  
 living and gangrenous parts this will put a stop  
 to gangrene except in the gangrene of the Loos of  
 the People Dr. Dorsey says he has put a stop to  
 Mortification by a Blister even in a case of this  
 kind. I shall now commence to speak of Symp-  
 lictatta or Potatoe Fly/wine Dr. Cox's Dispensatory  
 first introduced it to practice by Dr. Chapman  
 of Chester County Penna. & proved from the Potatoe  
 Wine Dr. Gorwin of Massachusetts

Dr. Schott made them the subject of his  
 Inaugural Thesis made experiments and  
 found that they produced Blisters in much  
 shorter time than the Spanish Fly of the  
 powder he made a plaster that produced a  
 Blister in 5 or 6 hours & some in 3 hours and  
 that they are superior to the McLoe vesicatoria.



In the year 1811, I was  
appointed to the office of  
Recorder of the County of  
Alameda, and in the year  
1812, I was appointed to the  
office of Justice of the Peace  
for the same County. I have  
since that time been engaged  
in the discharge of the duties  
of these offices, and have  
been honored with the  
confidence of the people of  
this County. I have also  
been a member of the  
County Board of Supervisors,  
and have been engaged in  
the management of the  
County Affairs. I have  
also been engaged in the  
management of the  
County Jail, and have  
been engaged in the  
management of the  
County Prison. I have  
also been engaged in the  
management of the  
County Hospital, and have  
been engaged in the  
management of the  
County Almshouse. I have  
also been engaged in the  
management of the  
County Poorhouse, and have  
been engaged in the  
management of the  
County Workhouse. I have  
also been engaged in the  
management of the  
County Jail, and have  
been engaged in the  
management of the  
County Prison. I have  
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management of the  
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management of the  
County Poorhouse, and have  
been engaged in the  
management of the  
County Workhouse.

I have also been engaged in the  
management of the  
County Jail, and have  
been engaged in the  
management of the  
County Prison. I have  
also been engaged in the  
management of the  
County Hospital, and have  
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management of the  
County Almshouse. I have  
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management of the  
County Poorhouse, and have  
been engaged in the  
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County Workhouse. I have  
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management of the  
County Hospital, and have  
been engaged in the  
management of the  
County Almshouse. I have  
also been engaged in the  
management of the  
County Poorhouse, and have  
been engaged in the  
management of the  
County Workhouse.



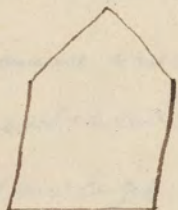
The Natural Trinitine produces veniation.  
 The Lin & powder both produce strangury.  
 From my experience I find the difference  
 between the Potator & Spanish Fly to be  
 very small. I think one is as active as the other.  
 Mode of Application of Blister To the Head.  
 The Head should be shaved previous to their  
 application. The Plaster should be as large as  
 to embrace nearly the whole cranium of an  
 oval form notches cut in the edge to allow it to  
 lay close. A Handkerchief bound round the head  
 to keep the plaster in contact with every other part.  
 In shaving the head wherever you can (particularly  
 in Ladies) leave the front part of the head with  
 hair on as it will prevent them from wearing  
 a wig. Sometimes to the back of the neck will  
 answer the purpose and save the patient's  
 hair. cut in the shape of a half moon, holes  
 in the corner for strings. For the Ears it is cut  
 in the same shape. For the Forehead the same.  
 For the Eye lids in the shape  
 about the size of Dollar. Formerly applied  
 adhesive plaster over the eye lids to prevent any  
 of the flies from getting in the eye but this  
 precaution is unnecessary as the tears will  
 wash out any particle of the fly which  
 has got into the eye.



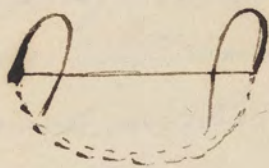




For the Epigastrium in the following  
Shape



For in the Throat a small oblong  
plaster is to be used when we only wish  
to Blister the Tonsils the following



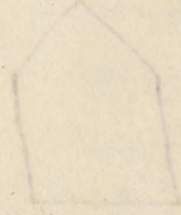
The middle not to be spread with the  
flies.

All other parts of the Body are to be  
blistered with oval or square Blisters

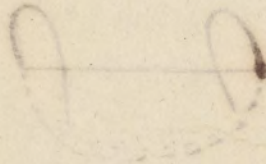
### Cauterium Actuale

Actual Cautey, It is but little employed at  
this time They are occasionally used in the  
French Hospitals. Doctor Boventine mentions  
that Mania & Epilepsy are relieved by it  
scind by it, he extols cautey highly applies  
them to the occiput. I shall only remark





\* Insertion of deltoid muscle - inner lam  
sting





That Issues & setons answer the same purpose - Now - Burning more on the Body.  
 The Indians use them and I hope that our  
 Modern medical Brethren will not resort  
 to their savage Practice.

### Setons & Caustics

The seton is generally applied to the back  
 of the neck & the diseases are chronic on which  
 blisters are usefull. In head ache of the perpetual  
 kind, chronic inflammation of the eyes, ears, scroph-  
 ulous joints in the healing up of old ulcers  
 in chronic affections of the lungs, always near  
 the affected part, In chronic cases to the left arm  
 in the deltoid muscle vide Vol II. Elements  
 of Surgery

Caustics, These destroy the Texture of the  
 part, they excite an action which the vital  
 powers cannot overcome by adding quick

lime, their action is chemical, van Helmont  
 was the first who asserted that they have no  
 effect on the dead Body

Caustic Potash. Prepared by adding Quicklime  
 to the carbonate of Potash this is the most pow-  
 erfull of all caustics made into Shoulders.



1842



It is very deliquescent it is to be secluded from the air. Kept in Bottles well stoped, it is to be applied cautiously not too deep as it might if near an Artery produce a Stoughing of the Artery which would be a serious consequence. If left too long is apt to produce a large ulcer by spreading. Its deliquesence renders it extremely proper in old ulcers with callous edges. In opening an Abscess it is better adapted than any escharotic as it will soak and spread as before mentioned into the Abscess. In making Issues, it is immediately neutralized by Vinegar on that occasion it is usefull in burning fungous tumours of the mouth. The mineral acids act rapidly as escharotics especially the Sulphuric and Nitric acids but from their fluidity they can seldom be conveniently employ'd

### Nitrate of Silver

This is ~~adapted~~ to all cases ~~where the escharotic~~ where escharotics are to be used. It changes the condition of parts and renders them ready to heal producing healthy granulation. This is to be used in Chancre. This preparation is obtain'd by Dissolving silver in Nitric acid





*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*

*[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]*



and evaporating the solution to dryness,  
melting the mass by a gentle heat and while  
liquid running it into cylindrical moulds  
in which as it cools it becomes concrete

Sulphas Cupri. Recd Precipitate, Burnt  
Ullum corrosive Sublimate and Arsenic  
are all in

*Amurca* *Sabinus*, *Savinne*. The  
leaves as I have before mentioned possess  
an acrid power so hence they are employed.  
The Powder sprinkled on warts and other  
excrescences removes them it is used as an  
application to old ulcers, keeps up a dis-  
charge from an Spue, It will not  
excite a Strangury or cantharides does  
It is made into an Ointment as follows

*R* Pulv. *Savine* leaves *℥ss*  
melted Lard — *℥ij*  
Bees wax — *℥ss*

I have now finished with *Epispastus*







# 1

## L<sup>2</sup> Dozey's Classification

First	Evacuants	Second Stimulants
	Bloodletting	Tonics
	Emetics	Astringent
	Cathartics	Purgatives
	Diuretics	Antispasmodics
	Diaphoretics	
	Anthelmintics	
	Epispastics	
	Emmenagogues	

First Bloodletting is that operation by means of which we abstract Blood from the system either by the lancet, cupping or leeching.

Emetics are those means which excite vomiting and throwing up the contents of the stomach for the time present in it. They are divided into the vegetable & mineral ones.

First the vegetable—

1. *Ipocatanhamma* (Callicoca *Ipocac*) From Peru Root Dozey p 5-6
2. Indian Physick (*Spiraea Trifoliata*) N America Cortex - Do p 30
3. *Nicotiana Tobacum* (Tobacco) - - - - - Do - - - - - Do small
4. *Scilla Maritima* (sea onion) (squill) Spain - - - - - Do 4, 89



1  
The Society of Physicians

That the Society of Physicians  
do hereby certify that the  
following are the names of the  
members of the Society of Physicians  
who have been elected to the  
office of the Society of Physicians  
for the year 1888

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## Mineral Emetics

- 1 Antimony found in Germany, Hungary & France  
 Tartaric Acid of Antimony made by taking  
 Crocus of Antimony — 3 lbs  
 SuperTartaric Acid of Potash — 4 lbs  
 Water — 32 lbs

and Boil until it forms a Triple Salt Dose — 5-10 grs

- 2 Sulphas Zinci (White vitriol) — Dose — 10-15 grs  
 3 Sulphas Cupri (Blue vitriol) — Dose — 2-5 grs  
 4 SubSulphas of Mercury (Turpitho Mineral) — Dose — 3-5 grs

## Cathartics

Cathartics are those Meds. which promote the  
 Discharges of the Stomach & bowels —

Of the Vegetable Cathartics

- 1 Sinapi-alba & nigra (Mustard White & Black) — Dose Table Spoon  
 2 Juglans cinerea (White Walnut) — Lax & Cath. — Dose 6, 10, 14, 30 grs  
 3 Podophyllum Peltatum (May apple) Root — Dose — 1 ℥  
 4 Manna (Fraxinus ornus) Mediterranean — Dose 1 ℥  
 5 Oleum Ricini (Castor oil) W. Indies — Dose 1 ℥  
 6 Senna casia senna — Africa & Egypt (give with manna 3℥) 3℥  
 made into Tea 3℥ to 1℔ of water, sweeten Dose Wine glass full — 2 hours  
 Dose 20, 30 grs  
 7 Rheum, Palmatum (Rhubarb) China — Dose 3℥  
 8 Colocynthis (Sclap) South America (root) — Dose 3℥  
 9 Aloe Perfoliata (Aloes) Gum Resin — Dose 1 ℥  
 10 Gamboge (E. Indies) with 10 grs of castor oil — Dose 5 grs



Abstract of the

1. The first part of the report is a general statement of the progress of the work during the year. It is a summary of the work done, and is intended to give a general idea of the progress of the work. It is not intended to give a detailed account of the work, but to give a general idea of the progress of the work.

Abstract of the

2. The second part of the report is a detailed account of the work done during the year. It is a summary of the work done, and is intended to give a general idea of the progress of the work. It is not intended to give a detailed account of the work, but to give a general idea of the progress of the work.



- 11 *Convolvulus Scammonia* (<sup>scammony</sup> Mediterranean) Gum Resin - Dose 2, 10 gr  
 12 *Cucumis colocynthus* ( ) Turkey - Dose 2, 6 gr  
 13 *Helleborus Niger* (*Melampodium*) Black Hellebore Dose  
 14 *Cucumis Agate* (*Mimodica allaterrum*) Dose 1 gr

### Mineral Cathartics

- 1 Calomel - Dose - 10 gr  
 2 Sulphur - Dose 1, 2 gr  
 3 Magnesia Dose  
 4 Sulphate of soda (*Sals Glauberius*) Dose - 1 gr  
 5 Sulphate of Magnesia (*Epsom salt*) Dose 1 gr  
 6 Tartate of Potash & Soda (*Rockelle salt*) Dose - 1 gr  
 7 Super Tartate of Potash (*Cremon Tartar*) Dose 2 gr 2 hours  
 8 Tartate of Potash (*Soluble Tartar*) Dose 6 gr 1 gr  
 9 Phosphate of Soda Dose 1 gr

### Diuretics. Promotes the discharge of urine

- 1 Nitrate of Potash (*Nitre*) Dose 4-10 gr 2 hours  
 2 Super Tart of Potash (*Cremon Tartar*) Dose  
 3 Tartate of Potash (*Soluble Tartar*) Dose 1, 2 gr 2 hours  
 4 Dulcified Spirit of Nitre (*Diaphoretic*) 20 gr Dose 30 gr  
 5 *Digitallis officinalis* (*Fox Glove*) leaves Dose 2 gr  
 6 *Nicotiana Tobacum* (*Tobacco*) leaves. Tincture Dose 50, 60 gr  
 7 *Scilla maritima* (*sea onion*) squills Spain Dose 1-3 gr  
 8 *Copaifera officinalis* (*Baham Copaliba*) Dose 20-30 gr  
 9 Oil of Turpentine - Dose 5-10 gr  
 10 *Polygala Senega* ( ) America - root powder Dose 10 gr 193rd Day



Mineral Catalogue

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11 *Meloe venicatorius* (Spanish Fly) Spain. Int. Dose 5-20 gr 23 day

12

### Antilithics

Antilithics are those substances which palliate or relieve the symptoms of calculous

1 Carbonate of Potash

Dose 5-20 gr 3x day

2 Super Do Do ( )

Dose ʒ ʒ 3x day

3 Soda saturat with carbonic Acid in Large Doses

4 Lime

5 Magnesia

6 Carbonic Acid

Dose 30 gr 3x day

7 Muricatic Acid

Dose 40 gr 2x hour

8 Citric Acid Dilut

powder leaves

Dose ʒ ʒ

9 *Uva Ursi Folia* (whortleberry)

Dose

10 *Pyrola Umbellata*

11 *Lupulus communis* or *Humulus Lupulus*

(hop) America In Tincture

Dose ʒ ʒ

12 Oil of Turpentine

Dose ʒ ʒ 15 gr 3x day

13 *Allium Sativum* (Garlic) America Do

### Diaphoretics

Diaphoretics are those substances which produce a discharge by the skin whether by sensible or insensible perspiration

1 Antimony In different Forms as statd before but in small doses

2 *Specaccharanna* (vine & Specaccharanna powder Dose)

Dose ʒ ʒ 3x hour



With the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind

And the most perfect knowledge of the human mind



3 Nitre

Dose 10.15 gr

4 All Cathartic salts combined Emetic Tartar

5 Spiritus Mindereris - 13 vinegar saturated with sufficient quantity

6 Opium - 25 gr of Lan. &amp; 35 li. wine 15 gr to a dose - Ipecac 1 pt

Opium 1 pt Sulphate of Potasse 8 pt — Dose 10 gr

7 Camphor, Musk &amp; Sulphur I do not think much of as Diaphoret.

8 Eucatorium perfoliatum (Bone set) leaves &amp; stalk - strong tea

9 Polygala senega (Snake root) Decoction  $\frac{1}{2}$  to 1 lb of water  $\frac{1}{2}$  Dose

10 Laurar Sassafras (Sassafras) root &amp; Bark macer Decoction

11 Guaiacum officinalis

Wood &amp; Gum Resin W Indies Dose 30 gr

12 Daphne Mezereum (Liquorice root)  $\frac{1}{2}$  to 1 lb of water per Day

Dose

13 Sabina (Savine)

## Sialagogues

Sialagogues are those med. which produce an increased secretion of the Salivary Glands

### Mercury Preparations

1 Calomel Sub Murinate of Mercury Dose - 1.2 gr 3 in Day

2 Black Sulphuret of Mercury (Ethiops Mineral) Dose 5.10 gr

3 Red Sulphuret Do. (Cinnabar)

4 Muriate of Mercury (Corrosive sublimat.) Dose  $\frac{1}{8}$  to  $\frac{1}{4}$  gr5 Red Oxide of Mercury (precipitate pers.) Dose  $\frac{1}{2}$  gr 2 in Day

6 Red Precipitate - Red oxide of Mercury by Nitric acid

7 Grey oxide - Do

Dose 2 gr 2 in Day

8 Sub Sulphate of Mercury (Turpeth Mineral) Dose

9 White Precipitate



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## Emenagogues

Emenagogues are those medicines which are supposed to excite the discharge of the menstrual flux

- 1 Aloes - Dose 5, 15 gr
- 2 Calomel - ℞ Sulph Ferri ʒss Pulv Kad Galap ʒj Gum Myrrh ʒj
- 3 Hyena Pinea ʒss (Hooper's Pill)
- 3 Helleborus Niger 4ʒ botanical ʒj alcohol 6ʒss Dose 30 gr 4 times a day
- 4 Seneka - In Decoction Dose 4ʒ 3 times a day
- 5 Ergot (Spurred Rye) Powder Dose 15 gr
- 6 Sabina (Savine) leaves or oil Dose 15 gr
- 7 The Preparations of Iron -

## Anthelmintics

Anthelmintics are those medicines which have the property of expelling Worms which infest the alimentary canal

- 1 Calomel To a Child 5 grs Dose 5: 6 grs
  - 2 Sulph Ferri ʒj ( ʒj of Calomel for 3 morning with Rhubarb )
  - 3 Chenopodium Anthelminticum ( Jerusalem Oak ) seeds leaves in Tea
  - 4 Spigelia Marylandica ( Decoction ʒj toll j of water ) Senna
  - 5 Melia Bezardarach ( Pride of China ) Decoction Dose 1 Spoonfull
  - 6 Helleborus Foetidus
  - 7 Carbonate of Iron ( just of Iron ) Sulph Ferri ( ʒj - ) ʒj powder
  - 8 Muriate of Soda ( Salt ) Dose ʒjss
- These Dispell the Lumbricioides -



1. The first thing I noticed when I stepped out of the plane was the cold. It was a sharp contrast to the warm air inside. I pulled my coat tighter around me and looked out at the snow-covered landscape below. The trees were bare, their branches reaching out like skeletal fingers against a pale, overcast sky. A few distant houses with snow-laden roofs were visible, but the overall scene was one of quiet desolation. I took a deep breath, the cold air filling my lungs, and felt a strange sense of peace. This was a new world, a world where the only sound was the soft crunch of snow underfoot.

2. As I walked further into the woods, the snow became deeper. Each step I took was followed by a soft, muffled sound. The trees stood in rows, their dark trunks creating a rhythmic pattern against the white background. I noticed how the light was diffused, creating a soft, even glow that eliminated harsh shadows. It was a beautiful, almost ethereal quality. I found a small stream, its surface covered in a thin layer of ice, with snow piled up on its banks. The water was still, reflecting the pale sky. I crouched down, watching the snowflakes that had drifted down from above settle on the ground. They were perfect little crystals, each one a masterpiece of nature's artistry. I felt a sense of wonder, a childlike awe at the beauty of the world around me.



### ascarides

- 1 Hiera Picra ) 1/3 to 1/2 of Brandy Dose a Table spoon full
- 2 Oleum Ricini (Castor oil) Dose 3j
- 3 Glysters of Tobacco, Camphor tea (made by moistning with spirit & boiling with water) Oil of Turpentine, mercurial preparations &c —

### Lemia

- 1 Mercurial Preparations
- 2 Iron filings For Child Dose 2 or 3 spoon full
- 3 Iron do Dose 3j
- 4 Amalgam of tin & mercury Dose ʒss
- 5 Cowage ( ) To an adult Dose 2 Table spoon full
- 6 Lime Water, Soma, Chaly beats &c

### Erisipasties

Erisipasties are those ~~meds~~ which when externally applied produces a discharge from the skin under this head shall place Rubefacient, vesicatories & Caustics

#### Rubefacients

- 1 Friction, hot Bricks, low, Cat &c
- 2 Olive oil & vol alkali - Liniment
- 3 Oleum Terebinthinace (oil of Turpentine) 3/4 Camphor 3j
- 4 Tart Emetic sprinkled on Betegamy pitch plaster
- 5 Sinapisms of mustard - horseradish - Garlic
- 6 Cayenne Pepper

#### Vesicatories

- 1 Meloe vesicatorius (Spanish Fly) France Spain & Italy
- 2 Lytta vitata (Potatoe fly)



1. The first thing I noticed when I stepped out of the car was the cold. It was a sharp contrast to the warm blanket I had been sitting under. I looked up at the sky, which was a pale, overcast grey. The trees around me were bare, their branches reaching out like skeletal fingers. I took a deep breath, the air crisp and clean. I felt a sense of peace, a moment of stillness in a world that was always moving. I walked slowly, my boots crunching on the fallen leaves. The sun was low in the sky, casting a soft, golden glow over everything. I felt a sense of hope, a belief that everything would be alright. I smiled at the thought, feeling a warmth that spread through my chest. I knew that no matter what happened, I would be okay. I was strong, I was brave, and I was capable of anything. I took another deep breath, feeling the world around me. I was home.

2. The second thing I noticed was the sound. It was a soft, rhythmic hum that seemed to come from everywhere and nowhere at once. I looked around, trying to find the source of the sound, but I couldn't. It was like a lullaby, a gentle reminder that I was not alone. I closed my eyes, letting the sound wash over me. I felt a sense of calm, a deep relaxation that I had never experienced before. I knew that this was my chance to rest, to let go of all my worries and fears. I took a deep breath, feeling the sound fill my lungs. I was safe, I was protected, and I was loved. I smiled at the thought, feeling a warmth that spread through my chest. I knew that no matter what happened, I would be okay. I was strong, I was brave, and I was capable of anything. I took another deep breath, feeling the world around me. I was home.



## Caustics

- 1 Actual Caustery
- 2 Setons
- 3 Caustic Potash / quicklime & carbonate of Potash
- 4 Sulphur & Nitric Acid
- 5 Nitrate of Silver (Linear Caustic)
- 6 Sulph. Cupri
- 7 (Red Precipitate)
- 8 Burnt Alum
- 9 Muriate of Mercury sub / corrosive sublimate
- 10 Juniperus Sabines (Savine)

## Stimulants

Stimulants are those Medicines which when applied either externally or internally produces a new action I have divided Stimulants in Diffusible

& Permanent

Diffusible Stimulants

- 1 Vol alkali / carbonate of ammonia (hartshorn) Dose & given when
- 2 Camphor / From do many sage & several aromatics - Ameri  
ca also from Japan ————— Dose
- 3 Alcohol —————
- 4 Sulphur ether ————— Dose 20gt - 3ss
- 5 Hoffman's mixture - ether & oil of rose Dose 3ss
- 6 Oil of Turpentine ————— Dose 3ss



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- 7 Capsicum 5gr ) W Indies - with Sulf<sup>r</sup> & Copper 1/8 ) 1 Pill  
 8 Piper Nigrum (Black Pepper)  
 9 Amomum Zingiber (Ginger) Barb Ferri & Rad Rhei aa ʒss - 12 powders  
 one 2 or 3 times a day

## Narcotics

Narcotics are those Meds which diminish the sensibility and irritability of the system & producing sleep

- 1 Opium (Gum Resin) from the papaverum somniferum) Turkey  
 & East India - Dose 4gr  
 2 Laudanum 1/2 Opi to 1 lb alcohol - Do 25gr  
 - Do 1.2gr  
 2 Hyoscyamus )  
 3 Laurus Cerasif (cherry tree) Europe. leaves. Infusion ʒj Fin Do 5gr  
 4 Atropa Belladonna (Deadly Nightshade) leaves - Do 1.3gr  
 5 Conia maculatum (Cinnamon) (Kemplock) Extract Do 1.2.5gr  
 6 Datuna Stramonium (Jamestown weed) Extract Do 2.15gr  
 7 Nicotiana Glaberrima (Tobacco) Glyster ʒj to lbj of water 24 1/2 -  
 8 Humulus Lupulus (hops) powdered leaves Do 3gr

## Antispasmodic

Spasm is an irregular morbid action of the muscular fibres and Antispasmodics are those Meds which relieve spasm

- 1 Camphor (obtained from the Laureo camphora) Japan Dose 5.20gr  
 2 Moschus (musk) moschus moschiferous) Asia Do 5gr 2 hours  
 3 Castoreum (Castor) beaver) Europe, Asia & America Do 5.20gr  
 4 Carbonate of Ammonia ( ) Do 1.5gr  
 - Do 15gr  
 5 Oil of Amber ( )  
 6 Spasmodica Ferrula (Spasmodica) 2) Gum Resin) Rosacea 3) Do 10 drops  
 every 3 hours



2. *Chrysomelidae* (Chrysomelidae)  
3. *Chrysomelidae* (Chrysomelidae)  
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20. *Chrysomelidae* (Chrysomelidae)



- 7 Valerian Officinalis (Wild valerian) Radix Europe - Dose ʒ 3<sup>rd</sup> Day
- 8 Crocus Sativus (Saffron)
- 9 Tar Water - Spirit of Tar 2 Gal of water
- 10 Warm Bath
- 11 Alumen Sativum (Garlic)

## TINCTS

are those med<sup>s</sup> which strengthen, embrace & give tone to the muscular fibres

- 1 Cinchona officinalis (Peruvian Bark) red, Pale yellow Peru  
cordifolia lancifolia (Pale Bark) cinchona cordifolia (Pale Bark) and  
cinchona oblongifolia (red Bark) Dose ʒ ʒ 1 hour
- 2 Gentian Lutea Radix. Gentian (Germany Switzerland) Do gr 30
- 3 Colombo U S Powder root Do ʒ ʒ 3 hours
- 4 Quina Eacaba lignum (Quina) W Indies Do gr ʒ
- 5 Angustura Bark Southern countries Do ʒ ʒ
- 6 Serpentina virginiana powdered Do ʒ ʒ 1
- 7 Parnia Virginiana )
- 8 Anthemis Mobilis chamomelum (chamomile) Flores Do ʒ ʒ 3<sup>rd</sup> Day
- 9 Century Do
- 10 Cornus Florida ) Do ʒ ʒ
- 11 Eupatorium Perfoliatum ) Do
- 12 Carbonate of Iron (Rubigo Ferri) rust of Iron Do gr ʒ 5-10
- 13 Sulphate of Iron (Sul Martis) (Copperas)
- 14 Murate of Iron Tinct<sup>d</sup> diluted with Alcohol forms Tinct. Ferri Mur<sup>at</sup> Do 10 gr
- 15 Cuprum (Copper) Do ʒ ʒ 1
- 16 Ammonia et Cupri (Sulphate of copper & Carbonate of Ammonia)



- 17 Sulphuret of copper (4gr) / Lopsium fz pills - Dose 3gr  
 18 Nitrate of silver (Lunar Caustic) Pill - Do 1/8gr  
 19 Muriate of Gold  
 20 Zincum (Zinc) / Sulph of zinc  
 21 Acetate of zinc is formed by adding to sulph of zinc acetate of Lead  
 22 Arsenic Oxide from Cobalt & Nickel - Do 1/6gr  
 23 Fowler's Solution - Do 10-15 drops  
 24 Sulphuric Acid - 30gr to 1 pint of water if strong 4gr to 1 pint  
 25 Nitric Acid 3j Solution of Gum Arabic 46  
 26 Muriatic Acid

## Astringents

Astringents are those ~~mde~~ which when applied to the human Body produces a contraction or condensation of the soft solids & thereby increasing their density and force of cohesion

- 1 Extract of catechu gum resin Dose 20gr  
 2 Kino - Dose 23gr  
 3 Quercus (Oak) - Do 33  
 4 Lignum campechianse / Logwood  
 5 Dew Berry root - Black Alder - Geranium maculatum  
 6 Cupru / Blue vitriol  
 7 Zinc - Lead 33  
 8 Cerussa Acetata / White Lead / Subacetate of Lead  
 9 Sulphate of Alumine / Alum  
 10 Carbonate of Lime (prept Chalk)



2/4

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3/4

2/4

2/4

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2/4

2/4



*Platyrrhina Myoides*  
*Platyrrhina Myoides*





R. Sulph. Sodae  
 Tart. Antimon. (gr)  
 Inf. Puls. No VIII  
 Dose one every 2 hours  
 In febrile disease

M. C. LAR

R. Sac. Sol. No. 1  
 Inf. Puls. No. 1  
 Inf. Puls. No. 1  
 Inf. Puls. No. 1

R. Nit. Potass.  
 Cal. ppt. No. VIII  
 Tart. Antimon.  
 Inf. Puls. No. VIII  
 Dose one



